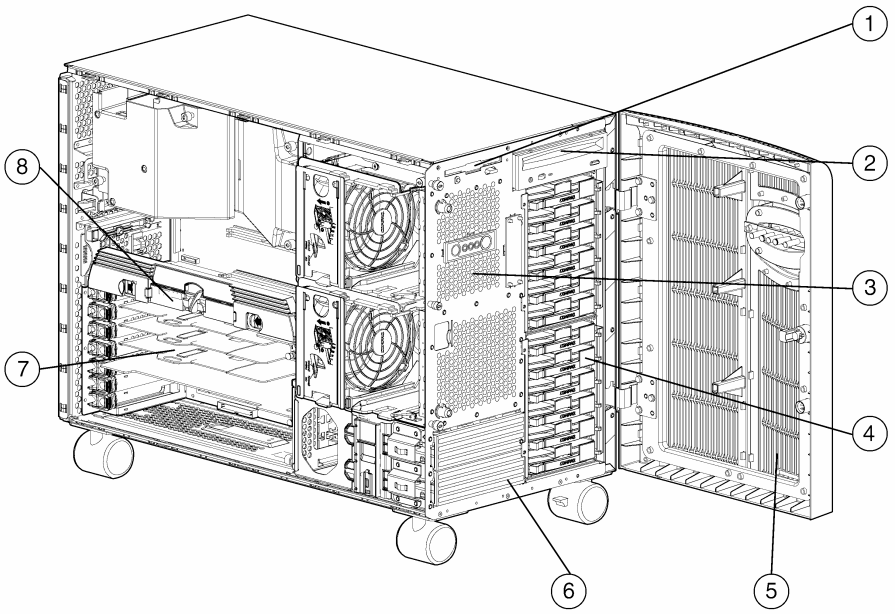
Overview

What's New

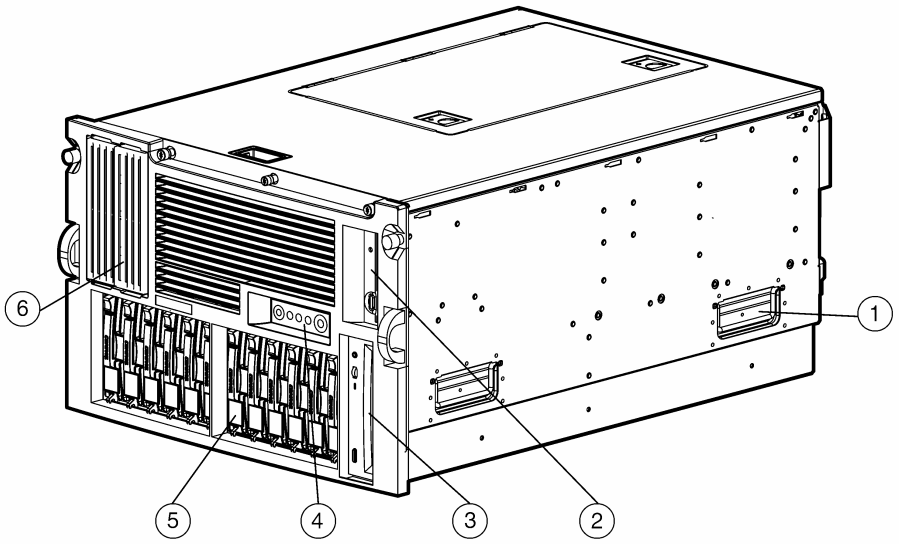
- Intel® Xeon™ Processors MP at 1.9 GHz/2B or 1.5 GHz/1MB

At A Glance

- Best-in-class 4-way server with exceptional performance, maximum reliability and unmatched expansion/flexibility
- Intel® Xeon™ Processor 1.9 GHz/1MB, 1.5 GHz/1MB, 2.0GHz/2M or 1.40 GHz/512KB Processors with 400-MHz Front Side Bus
- ServerWorks Grand Champion-HE chipset
- 2x1 interleaved memory, 200MHz DDR SDRAM Memory
- 1024-MB (2P Models) or 512-MB (1P Models) PC1600 Advanced ECC SDRAM Memory standard, expandable to 32 GB
- Seven, full length 64-bit/100 MHz PCI-X slots, 4 Hot Pluggable
- Integrated Compaq NC3163 Fast Ethernet NIC PCI 10/100 WOL (Wake On LAN) and PXE support
- Integrated Dual Channel Wide Ultra3 compatible SCSI Adapter
- Wide Ultra3 compatible SCSI Drive Cage standard (two 6 x 1″ cages)
- Internal mass storage capacity up to 1 TB (12 x 72.8 GB + 2 x 72.8 GB 1″ hot plug drives) with optional ML5xx Internal Two Bay Hot Plug Wide Ultra2/Ultra3 SCSI Drive Cage (with fan)
- Integrated Remote Console and Automatic Server Recovery-2 (ASR-2)
- Two 600-Watt Hot Pluggable Power Supplies (additional third for redundancy)
- Optional Redundant Hot Plug Fans
- Industry-standard PCI Hot Plug with Push Button Functionality
- Advanced Memory Protection including Online Spare Memory, Hot-plug Mirrored memory and hot-add capability
- Protected by a global, three-year, on-site limited warranty with next business day response, and extended Pre-Failure Warranty, which covers processors, memory and disk drives, as well as a wide range of Compaq Services — Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center at 1-800-345-1518 for details.



1. 1.44- MB Floppy Drive
2. High Speed IDE CD-ROM
3. Diagnostic Lighting
4. Wide Ultra3/Ultra4 Hot Plug Drive Bays (12 x 1" Standard)
5. Front Bezel
6. 5.25-inch Removable Media Bays
7. Seven PCI-X slots
8. Memory Board



1. Rack handles
2. 1.44-MB Floppy Drive
3. High Speed IDE CD-ROM
4. Diagnostic Lighting
5. Wide Ultra3/Ultra4 Hot Plug Drive Bays (12 x 1" Standard)
6. 5.25-inch Removable Media Bays

Standard Features

Processor *One of the following depending on Model:*	Intel Xeon Processor MP 1.90 GHz\1MB Intel Xeon Processor MP 1.50 GHz\1MB Intel Xeon Processor MP 2.0 GHz/2MB Intel Xeon Processor MP 1.40 GHz\512KB Note: Rack-optimized models ship std with two processors while tower models ship with one processor as standard.	
Cache Memory *One of the following depending on Model:*	2-MB Integrated Level 3 Cache Note: 2.0 GHz Models only 1-MB Integrated Level 3 Cache Note: 1.9GHz and 1.5GHz Models onl 512-KB Integrated Level 3 Cache Note: 1.40 MHz Models only	
Upgradability	Upgradable to quad processing	
Chipset	ServerWorks Grand Champion-HE chipset Note: For more information regarding ServerWorks, please see the following URL: http://www.serverworks.com/products/overview.html.	
Memory *One of the following depending on Model:*	Standard Maximum Standard Maximum Note: For more information regarding Advanced Memory Protection, please see the following URL: http://www.compaq.com/products/servers/technology/memoryprotection.html.	1024 MB (PC1600-MHz Registered ECC SDRAM DIMM Memory) (Standard on 2P Rack Models only) 32 GB 512 MB (PC1600-MHz Registered ECC SDRAM DIMM Memory) (Standard on 1P Tower Models only) 32 GB
Network Controller	Integrated Compaq NC3163 Fast Ethernet NIC PCI 10/100 with full WOL (Wake On LAN) and PXE support	
Expansion Slots	I/O (7 Total) 64-bit, 100-MHz PCI Hot Plug 64-bit, 100-MHz PCI Non-Hot Plug	4, 4 available 3, 3 available
	PCI Voltage: 3.3 Volt Only 5 Volt or 3.3 Volt	
Storage Controller	Integrated Dual Channel Wide Ultra3 SCSI Adapter (Ultra 4 compatible)	
Storage	Diskette Drives CD-ROM Hard Drives Maximum Internal Storage	1.44 MB 48x IDE CD-ROM Drive None 1.019 TB (12 x 72.8 GB + 2 x 72.8 GB 1″ hot plug drives) with optional ML5xx Internal Two Bay Hot Plug Wide Ultra2/Ultra3 SCSI Drive Cage (with fan)
Interfaces	Parallel Serial Pointing Device (Mouse) Graphics Hot Plug Keyboard Rear USB Ports Network RJ-45	1 2 1 1 1 2 1
Graphics	Integrated ATI RAGE IIC Video Controller with 8MB Video Memory	
Form Factor	Tower or Rack (7U)	

Standard Features

***ProLiant*™ Essentials Foundation Pack Software**	*Insight Manager™ 7*	Insight Manager 7 helps maximize system uptime and performance and reduces the cost of maintaining the IT infrastructure by providing proactive notification of problems before those problems result in costly downtime and reduced productivity. Insight Manager 7 is easy to set up and provides rapid access to detailed fault and performance information gathered by the Management Agents. One-click access to the Integrated Lights-Out or Remote Insight Lights Out Edition board allows systems administrators to take full graphical control of ProLiant servers in remote locations or lights-out data centers. Finally, Insight Manager 7 in concert with the Version Control Agents and Version Control Repository Manager enables systems administrators to version manage and update system software across groups of ProLiant servers.
	SmartStart™	SmartStart is a tool that simplifies server setup, providing a rapid way to deploy reliable and consistent server configurations. For more information, please visit the SmartStart website at http://www.hp.com/servers/smartstart. Minimum SmartStart version supported: 6.0
	Management Agents	The Management Agents form the foundation for HP's Intelligent Manageability strategy. They provide direct, browser-based access to in-depth instrumentation built into HP servers, workstations, desktops, and portables, and send alerts to Insight Manager 7 and other enterprise management applications in case of subsystem or environmental failures. For additional information about the Management Agents and other management product s from, HP please visit the management website at http://www.hp.com/servers/manage.
	ActiveUpdate™	ActiveUpdate is a web-based application that keeps IT managers directly connected to HP for proactive notification and delivery of the latest software updates.
	ROMPaq™, support software, and configuration utilities	The latest software, drivers, and firmware fully optimized and tested for your ProLiant server and options.
	Survey Utility and diagnostics utilities	The most advanced configuration analysis, reporting and troubleshooting utilities used by HP and at your fingertips.
	Optional ProLiant Essentials Value Packs	Optional software offerings that selectively extend the functionality of an Adaptive Infrastructure to address specific business problems and needs: • Rapid Deployment Pack – an automated solution for multi-server deployment and provisioning, enabling companies to quickly and easily adapt to changing business demands. • Workload Management Pack – provides easier management of complex environments, improving overall server utilization and enabling Windows® 2000 customers for the first time to confidently deploy multiple applications on a single multiprocessor ProLiant Server. Note: Flexible and volume quantity license kits are available for ProLiant Essentials Value Packs. Refer to http://www.hp.com/servers/proliantessentials or the various ProLiant Essentials Value Pack product QuickSpecs for more information.
	Note: For more information regarding ProLiant Essentials Software, please see the following URL: http://www.hp.com/servers/proliantessentials Note: This Web site is available in English only.	

Industry Standard Compliance	ACPI 2.0 Compliant PCI 2.2 Compliant PXE Support WOL Support Physical Address Extension (PAE) Support Microsoft® Logo certifications

Standard Features

Availability

- Advanced Memory Protection Technology – delivers unsurpassed memory protection and server availability:
  - Advanced ECC Memory
    ECC protection provides the ability to detect and correct single bit memory errors while Advanced ECC extends this coverage to include protection against multiple simultaneous errors on a DIMM. Advanced ECC detects and corrects 4bit memory errors that occur within a single DRAM chip on a DIMM. Advanced ECC algorithms work in combination with industry standard ECC DIMMS.

Advanced Memory Protection Configurations

- Online Spare Memory
  Offers a higher level of memory protection than Advanced ECC alone. The system is configured with a spare bank of memory. If the number of single-bit correctable errors on a bank exceeds the pre-defined error threshold, the failing bank will fail over to the Online Spare bank without intervention or server interruption. The failed memory can then be replaced at the user's convenience during a scheduled maintenance window.
- Single-Board Mirrored Memory
  Single-board mirrored memory provides a higher level of availability than Advanced ECC and Online Spare Memory because it protects against multi-bit errors. Single-board Mirrored Memory uses a single memory board that is configured with a mirrored/redundant set of memory. The system writes to both sets of memory, but reads from one. If a memory bank has a multi-bit error or full DIMM failure, the system simply reads from the mirrored bank instead. This process occurs without intervention or server interruption, and the failed DIMM can be replaced during a regularly scheduled shutdown.
- Hot Plug Mirrored Memory
  Hot Plug Mirrored Memory is a fault-tolerant memory feature that provides a higher level of availability than Advanced ECC, Online Spare Memory, or Single-Board Mirrored Memory because it protects against multi-bit errors and does not require any server downtime to replace failed DIMMs. Hot Plug Mirrored Memory requires that two memory boards be installed, one an exact mirror of the other, which run in parallel and provide protection against multi-bit memory errors. When configured for Hot Plug Mirrored Memory, the system writes to both memory boards, but reads from one. If a read error occurs, the system fails over to the redundant memory board. At that point the memory board containing the failed DIMMs can be hot replaced. Once the failed DIMMs are replaced and the memory board re-installed into the server, the system goes back to full mirrored status. All this occurs without bringing the server down.

  Note: Hot Plug Mirrored Memory and Dual-Board Online Spare Memory require the use of two memory cards. All DL580 G2 servers ship standard with a single memory board. The second memory board is optional (P/N 203320-B21).

  Note: All Advanced Memory Protection modes are user configurable through the ROM-Based Setup Utility (RBSU) and viewable through Insight Manager 7 (CIM 7) and the Integrated Management Log (IML.).

- PCI-X Hot Plug Technology (Four 64bit/100MHz PCI-X hot plug slots available)
- Two 600W Hot Plug Power Supply standard
- Six Hot Plug System Fans standard

Manageability

Insight Manager 7
Remote Lights-Out Edition II (optional)
Automatic Server Recovery-2 (ASR-2)
Hardware Remote Console
Full Remote Server Reboot Capability
Reset and Failure Sequence Replay
Host Hardware Independent
Operating System Independent
Server Health Logging
Revision History Table
Automatic Revision Tracking
Drive Parameter Tracking (with Smart Array Controller)
Dynamic Sector Repairing (with Smart Array Controller)
Off-Line Backup Processor capability
Pre-Failure Warranty (covers processors, hard drives and memory)

Standard Features

Security	Power-on password Hot plug keyboard password Diskette drive control Diskette boot control QuickLock, Network Server Mode Parallel and serial interface control Administrator's password Disk configuration lock Locking access door on hood Locking tower bezel door Tool required for removing shipping screw from hood
Server Power Cords	Two Lowline power cords ship standard (Rack models ship with IEC cords)
Power Supply	Two 600W Hot Pluggable Power Supplies (three supported on rack models) third power supply is needed for redundancy. Note: Two 600-Watt Hot Plug Power Supply ships standard with 1P tower Models (optional Redundant Hot Plug Power Supply Option Kit). Three 600-Watt Hot Plug Power Supplies ship standard with 2P Rack Models. Note: Under certain configurations, server can operate in 1+1 redundancy mode using two power supplies. Configurations include servers with two processors and up to 12 drives or up to four processors and 6 drives installed. This assumes all PCI-X slots are fully populated. This mode will need to be set-up through RBSU.
System Fans	Six fans ship standard with two additional option fans for redundancy Note: Rack Models ship standard with redundant fans
Required Cabling	For required cabling information, refer to the Web site at http://www.compaq.com/products/servers/ProLiantml570/. Note: This web site is available in English only.
OS Support	Microsoft .NET Server & Advanced Server Microsoft Windows NT® Enterprise Edition Microsoft Windows 2000 Servers Microsoft Windows 2000 Advanced Servers Microsoft Windows NT 4.x Novell® NetWare® 5.1 & 6 SCO OpenServer® 5.0.7 Caldera® OpenUnix® 8.0.1 IBM OS/2 Warp Server for e-business LINUX® (Red Hat®, SuSE®) Sun™ Solaris™ Intel Platform Edition v8.0 Note: For a more complete and up-to-date listing of supported OSs and versions, please visit our OS Support Matrix at: ftp://ftp.compaq.com/pub/products/servers/os-support-matrix-310.pdf Note: For a listing of the latest drivers available for the ProLiant ML570 G2, please see: http://www.compaq.com/support/files/server/us/index.html.

Standard Features

Rack Airflow Requirements

- Rack 9000 and 10000 series Cabinets

  The increasing power of high-performance processor technology requires increased cooling efficiency for rack-mounted servers. The Compaq 9000 Series Rack and the new 10000 Series Racks provides enhanced airflow for maximum cooling, allowing these racks to be fully loaded with servers using the latest processors.
- Rack 7000 series Cabinets

  When installing a server with processors running at speeds of 550 MHz or greater in Compaq Rack 7000 series racks with glass doors (165753-001 (42U), and 163747-001 (22U)), the new processor technology requires the installation of Compaq's High Airflow Rack Door Inserts (327281-B21 (42U), 327281-B22 (42U 6 pack), or 157847-B21 (22U)) to promote enhanced airflow for maximum cooling.

CAUTION: If a third-party rack is used, observe the following additional requirements to ensure adequate airflow and to prevent damage to the equipment:

- Front and rear doors: If your 42U server rack includes closing front and rear doors, you must allow 830 square inches (5,350 sq cm) of hole evenly distributed from top to bottom to permit adequate airflow (equivalent to the required 64 percent open area for ventilation).
- Side: The clearance between the installed rack component and the side panels of the rack must be a minimum of 2.75 inches (7 cm).

CAUTION: Always use blanking panels to fill all remaining empty front panel U-spaces in the rack. This arrangement ensures proper airflow. Using a rack without blanking panels results in improper cooling that can lead to thermal damage.

Note: For additional information, refer to the Setup and Installation Guide or the Documentation CD provided with the server, or to the server documentation located in the Support section at the following URL: http://www5.compaq.com/products/servers/ProLiantml570/index.html.

Rack Kit

ML570 G2 rack models provide tool-free support for square hole racks (including Compaq/HP 7000, 9000, 10000 and H9 series) with an adjustment range from 28" – 29" in depth

Service and Support

Compaq Services provides a three-year, limited warranty, including Pre-Failure Warranty (coverage of hard drives, memory and processors) fully supported by a worldwide network of resellers and service providers and lifetime toll-free 7 x 24 hardware technical phone support. In addition, available service offerings include:

Note: Limited Warranty includes 3 year Parts, 3 year Labor, 3-year on-site support.

A full range of *CarePaq*™ packaged hardware and software services:

- Installation and start up
- Extended coverage hours and enhanced response times
- System management and performance services
- Availability and recovery services

Note: For more information, customer/resellers can contact http://www.compaq.com/services.

Please see the following URL regarding Warranty Information For Your Compaq Products:
http://www.compaq.com/support/warranty_upgrades/web_statements/176738.html

For additional information regarding Worldwide Limited Warranty and Technical Support, please see the following URL: ftp://ftp.compaq.com/pub/supportinformation/ejourney/176738.pdf

Note: Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center at 1-800-345-1518 for details.

Models

ML570R02 X1900-1M, 1024MB (2P) *311056 -xx1*	**Processor**	(2) Intel Xeon Processors MP 1.9 GHz standard (up to four supported)
	Cache Memory	1-MB Integrated Level 3 Cache
	Memory	1024 MB PC1600 registered ECC SDRAM (Standard) to 32 GB (Maximum) (2x1 interleaved memory and Advanced Memory Protection Technology) Note: Second memory board would be required to configure up to 32 GB or maximum memory using 2 GB DIMMs.
	Network Controller	Integrated Compaq NC3163 Fast Ethernet NIC PCI 10/100 with full WOL (Wake On LAN) and PXE support
	Storage Controller	Integrated Dual Channel Wide Ultra3 SCSI Adapter (Ultra 4 compatible)
	Hard Drives	None ship standard
	Internal Storage	1.019 TB maximum (with optional hard drives and drive cage)
	Power Supplies	Three 600W Power Supplies (third power supply for redundancy)
	Optical Drive	48x IDE CD-ROM Drive
	Form Factor	Rack (7U)
ML570R02 X1500-1M, 1024MB (2P) *307164 -xx1*	**Processor**	(2) Intel Xeon Processors MP 1.50 GHz standard (up to four supported)
	Cache Memory	1-MB Integrated Level 3 Cache
	Memory	1024 MB PC1600 registered ECC SDRAM (Standard) to 32 GB (Maximum) (2x1 interleaved memory and Advanced Memory Protection Technology) Note: Second memory board would be required to configure up to 32 GB or maximum memory using 2 GB DIMMs.
	Network Controller	Integrated Compaq NC3163 FastEthernet NIC PCI 10/100 with full WOL (Wake On LAN) and PXE support
	Storage Controller	Integrated Dual Channel Wide Ultra3 SCSI Adapter (Ultra 4 compatible)
	Hard Drives	None ship standard
	Internal Storage	1.019 TB maximum (with optional hard drives and drive cage)
	Power Supplies	Three 600W Power Supplies
	Optical Drive	48x IDE CD-ROM Drive
	Form Factor	Rack (7U)
ML570R02 X2.0GHz-2M, 1024MB (2P) *191694-xx1*	**Processor**	(2) Intel Xeon Processors MP 2.0 GHz standard (up to four supported)
	Cache Memory	2-MB Integrated Level 3 Cache
	Memory	1024 MB PC1600 registered ECC SDRAM (Standard) to 32 GB (Maximum) (2x1 interleaved memory and Advanced Memory Protection Technology) Note: Second memory board would be required to configure up to 32 GB or maximum memory using 2 GB DIMMs.
	Network Controller	Integrated Compaq NC3163 Fast Ethernet NIC PCI 10/100 with full WOL (Wake On LAN) and PXE support
	Storage Controller	Integrated Dual Channel Wide Ultra3 SCSI Adapter (Ultra 4 compatible)
	Hard Drives	None ship standard
	Internal Storage	1.019 TB maximum (with optional hard drives and drive cage)
	Power Supplies	Three 600W Power Supplies (third power supply for redundancy)
	Optical Drive	48x IDE CD-ROM Drive
	Form Factor	Rack (7U)

Models

ML570R02 X1400-512K, 1024MB (2P) *191693-xx1*	**Processor**	(2) Intel Xeon Processors MP 1.40 GHz standard (up to four supported)
	Cache Memory	512-KB Integrated Level 3 Cache
	Memory	1024 MB PC1600 registered ECC SDRAM (Standard) to 32 GB (Maximum) (2x1 interleaved memory and Advanced Memory Protection Technology) Note: Second memory board would be required to configure up to 32 GB or maximum memory using 2 GB DIMMs.
	Network Controller	Integrated Compaq NC3163 Fast Ethernet NIC PCI 10/100 with full WOL (Wake On LAN) and PXE support
	Storage Controller	Integrated Dual Channel Wide Ultra3 SCSI Adapter (Ultra 4 compatible)
	Hard Drives	None ship standard
	Internal Storage	1.019 TB maximum (with optional hard drives and drive cage)
	Power Supplies	Three 600W Power Supplies
	Optical Drive	48x IDE CD-ROM Drive
	Form Factor	Rack (7U)
ML570T02 X1900-1M, 512MB (1P) *311055 -xx1*	**Processor**	(1) Intel Xeon Processors MP 1.9 GHz standard (up to four supported)
	Cache Memory	1-MB Integrated Level 3 Cache
	Memory	512 MB PC1600 registered ECC SDRAM (Standard) to 32 GB (Maximum) (2x1 interleaved memory and Advanced Memory Protection Technology) Note: Second memory board would be required to configure up to 32 GB or maximum memory using 2 GB DIMMs.
	Network Controller	Integrated Compaq NC3163 Fast Ethernet NIC PCI 10/100 with full WOL (Wake On LAN) and PXE support
	Storage Controller	Integrated Dual Channel Wide Ultra3 SCSI Adapter (Ultra 4 compatible)
	Hard Drives	None ship standard
	Internal Storage	1.019 TB maximum (with optional hard drives and drive cage)
	Power Supplies	Two standard with optional third Power supplies for redundancy
	Optical Drive	48x IDE CD-ROM Drive
	Form Factor	Tower (7U)
ML570T02 X1500-1M, 512MB (1P) *307163 -xx1*	**Processor**	(1) Intel Xeon Processors MP 1.5 GHz standard (up to four supported)
	Cache Memory	1-MB Integrated Level 3 Cache
	Memory	512 MB PC1600 registered ECC SDRAM (Standard) to 32 GB (Maximum) (2x1 interleaved memory and Advanced Memory Protection Technology) Note: Second memory board would be required to configure up to 32 GB or maximum memory using 2 GB DIMMs.
	Network Controller	Integrated Compaq NC3163 Fast Ethernet NIC PCI 10/100 with full WOL (Wake On LAN) and PXE support
	Storage Controller	Integrated Dual Channel Wide Ultra3 SCSI Adapter (Ultra 4 compatible)
	Hard Drives	None ship standard
	Internal Storage	1.019 TB maximum (with optional hard drives and drive cage)
	Power Supplies	Two standard with optional third Power supplies for redundancy
	Optical Drive	48x IDE CD-ROM Drive
	Form Factor	Tower (7U)

Models

ML570T02 X2.0GHz-2M, 512MB (1P) *180322-xx1*	**Processor**	(1) Intel Xeon Processors MP 2.0 GHz standard (up to four supported)
	Cache Memory	2-MB Integrated Level 3 Cache
	Memory	512 MB PC1600 registered ECC SDRAM (Standard) to 32 GB (Maximum) (2x1 interleaved memory and Advanced Memory Protection Technology) Note: Second memory board would be required to configure up to 32 GB or maximum memory using 2 GB DIMMs.
	Network Controller	Integrated Compaq NC3163 Fast Ethernet NIC PCI 10/100 with full WOL (Wake On LAN) and PXE support
	Storage Controller	Integrated Dual Channel Wide Ultra3 SCSI Adapter (Ultra 4 compatible)
	Hard Drives	None ship standard
	Internal Storage	1.019 TB maximum (with optional hard drives and drive cage)
	Power Supplies	Two standard with optional third Power supplies for redundancy
	Optical Drive	48x IDE CD-ROM Drive
	Form Factor	Tower (7U)
ML570T01 X1400-512MB, 512MB (1P) *180320-xx1*	**Processor**	(1) Intel Xeon Processors MP 1.40 GHz standard (up to four supported)
	Cache Memory	512-KB Integrated Level 3 Cache
	Memory	512 MB PC1600 registered ECC SDRAM (Standard) to 32 GB (Maximum) (2x1 interleaved memory and Advanced Memory Protection Technology) Note: Second memory board would be required to configure up to 32 GB or maximum memory using 2 GB DIMMs.
	Network Controller	Integrated Compaq NC3163 Fast Ethernet NIC PCI 10/100 with full WOL (Wake On LAN) and PXE support
	Storage Controller	Integrated Dual Channel Wide Ultra3 SCSI Adapter (Ultra 4 compatible)
	Internal Storage	1.019 TB maximum (with optional hard drives and drive cage)
	Power Supplies	Two standard with optional third Power supplies for redundancy
	Optical Drive	48x IDE CD-ROM Drive
	Form Factor	Tower (7U)

Country Code Key	XX=00	U.S. English
	XX=02	Int'l
	XX=03	UK
	XX=37	APD
	XX=29	Japan
	XX=42	Europe
	XX=AA	PRC

Options

Processor	Intel Xeon MP X1.90 GHz-1MB Processor Option Kit Note: This processor option kit (PN 311228-B21) supports the ProLiant ML570 G2 only.	311228-B21
	Intel Xeon MP X1.50-1MB Processor Option Kit Note: This processor option kit (PN 191220-B21) supports the ProLiant ML570 G2 and the ProLiant DL580 G2.	191220-B21
	Intel Xeon MP X2.0 GHz-2MB Processor Option Kit Note: This processor option kit (PN 307276-B21) supports the ProLiant ML570 G2 and the ProLiant DL580 G2.	307276-B21
	Intel Xeon MP X1.40 GHz-512KB Processor Option Kit Note: This processor option kit (PN 226775-B21) supports the ProLiant ML570 G2 and the ProLiant DL580 G2.	226775-B21
	Note: Processor mixing of different frequencies and cache sizes is not supported	
ProLiant Essentials Value Pack Software	Rapid Deployment Pack, 1 User, V1.x Note: This license allows 1 server to be managed and deployed via the Deployment Server.	267196-B21
	Rapid Deployment Pack, 1 User, V1.x (Japan) Note: This license allows 1 server to be managed and deployed via the Deployment Server.	267196-291
	Rapid Deployment Pack, 10 Users, V1.x Note: This license allows 10 servers to be managed and deployed via the Deployment Server.	269817-B21
	Rapid Deployment Pack, 10 Users, V1.x (Japan) Note: This license allows 10 servers to be managed and deployed via the Deployment Server.	269817-291
	ProLiant Essentials Workload Management Pack (Featuring Compaq Resource Partitioning Manager version 2.0)	303284-B21
	Note: For more information regarding ProLiant Essentials Software, please see the following URL: http://www.hp.com/servers/proliantessentials. Note: Flexible and volume quantity license kits are available for ProLiant Essentials Value Packs. Refer to URL http://www.hp.com/servers/proliantessentials or the various ProLiant Essentials Value Pack product QuickSpecs for more information. Note: These Web sites are available in English only.	
Memory (DIMMs)	4096MB PC1600 Registered ECC SDRAM Memory Kit (2 x 2048 MB)	187421-B21
	2048MB PC1600 Registered ECC SDRAM Memory Kit (2 x 1024 MB)	187420-B21
	1024MB PC1600 Registered ECC SDRAM Memory Kit (2 x 512 MB)	187419-B21
	512MB PC1600 Registered ECC SDRAM Memory Kit (2 x 256 MB)	187418-B21
	Hot-plug Memory Expansion Board	236844-B21
	Note: Second memory board would be required to configure 16GB of memory using 2GB DIMMs.	
Optical Drives	16X DVD-ROM Drive Option Kit (Carbon) Note: The DVD-ROM drive is supported in the CD-ROM bay and in the removable media bay. If placed in the removable media bay, it requires the 2-Device IDE cable (PN 305381-B21).	217053-B21
	2-Device IDE Cable	305381-B21
Hard Drives	***Wide Ultra3 SCSI – Universal Hot Plug***	
	72.8-GB Wide Ultra3 SCSI 10,000 rpm Drive (1″)	232432-B22
	36.4-GB Wide Ultra3 SCSI 10,000 rpm Drive (1″)	176496-B22
	18.2-GB Wide Ultra3 SCSI 10,000 rpm Drive (1″)	142673-B22
	36.4-GB Wide Ultra3 SCSI 15,000 rpm Drive (1″)	232916-B22
	18.2-GB Wide Ultra3 SCSI 15,000 rpm Drive (1″)	188122-B22

Options

Storage Controllers	Smart Array 532 Controller	225338-B21
	Smart Array 532 Controller (Japan)	225338-291
	Smart Array 5302/128 Controller	283552-B21
	Smart Array 5302/128 Controller (Japan)	283552-291
	Smart Array 5304/256 Controller	283551-B21
	Smart Array 5304/256 Controller (Japan)	283551-291
	Smart Array 5312 Controller	238633-B21
	Smart Array 5312 Controller (Japan)	238633-291
	Ultra3 Channel Expansion Module for Smart Array 5300 Controller	153507-B21
	128-MB Cache Module for Smart Array 5302 Controller	153506-B21
	Advanced Data Guarding Module for Smart Array 5302 Controller	199371-B21
	256-MB Battery-Backed Cache Module Note: This 256-MB Battery-Backed Cache Module supports the Smart Array 5300 series controllers, MSA 1000 and the Smart Array Cluster Storage.	254786-B21
	64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter	154457-B21
	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter	129803-B21
Communications	Compaq NC3123 Fast Ethernet NIC PCI 10/100 WOL and PXE Note: Using the NC3123 in a hot plug slot is not recommended.	174830-B21
	Compaq NC3134 Fast Ethernet NIC 64 PCI Dual Port 10/100	138603-B21
	Compaq NC3135 Fast Ethernet Module Dual 10/100 Upgrade Module for NC3134	138604-B21
	Compaq NC6132 Gigabit Module 1000 SX Upgrade Module for NC3134	338456-B23
	Compaq NC6136 Gigabit Server Adapter, 64-bit/66MHz, PCI, 1000 SX	203539-B21
	Compaq NC7132 10/100/1000-T Upgrade Module for NC3134	153543-B21
	Compaq NC7770 PCI-X Gigabit Server Adapter	244948-B21
Redundant Options	Hot-plug Redundant Fan Kit Note: Included in Rack Optimized models.	128284-B21
	Hot Plug Redundant Power Supply Note: Included in Rack Optimized models.	236845-001
	Hot Plug Redundant Power Supply (Australia) Note: Included in Rack Optimized models	236845-011
	Hot Plug Redundant Power Supply (Int'l) Note: Included in Rack Optimized models	236845-021
	Hot Plug Redundant Power Supply (UK) Note: Included in Rack Optimized models	236845-031
	Hot Plug Redundant Power Supply (Japan) Note: Included in Rack Optimized models	236845-291
Management Options	Remote Insight Lights-Out Edition II (NA, LPD)	227251-001
	Remote Insight Lights-Out Edition II (EMEA)	227251-021
	Remote Insight Lights-Out Edition II (ROW)	227251-371
	Compaq Remote Insight Lights-Out Edition (NA, LA)	157866-001
	Compaq Remote Insight Lights-Out Edition (EURO)	157866-021
	Compaq Remote Insight Lights-Out Edition (APD, Japan)	157866-371
Security	Compaq AXL300 Accelerator PCI Card for ProLiant Servers	227933-B21
	HP/Atalla AXL600L SSL Accelerator Card for ProLiant Servers	524545-B21

Options

Monitors

Flat Panel TFT8030 18″ Color Monitor Two-Tone (Carbon/Silver)	234362-xxx
Flat Panel TFT1825 18″ Color Monitor Two-Tone	296751-xxx
Flat Panel TFT7020 17″ Color Monitor Two-Tone (Carbon/Silver)	253216-xxx
Flat Panel TFT1720 17″ Color Monitor Two-Tone	295926-xxx
Flat Panel TFT1520 15″ Color Monitor Two-Tone	295925-xxx
Flat Panel TFT2025 20″ Color Monitor Two-Tone	285550-xxx
TFT5010R Flat Panel Monitor (Carbon)	281683-B21
TFT5010R Flat Panel Monitor (NA)	217248-001
TFT5010R Flat Panel Monitor (Int'l)	217248-B31
TFT5010R Flat Panel Monitor (Japan)	217248-291

Note: Monitors larger than 17″ may be too heavy for use in rack systems.

TFT Country Code Key

NORTH AMERICA

Dash #	Description
-001	NA
-B24	All NA/LA models

APD

Dash #	Description
-011	Australia/NZ

JAPAN (CKK)

Dash #	Description
-291	Japan

Tape Drives

Internal and External DAT Tape Drives

Internal 12/24-GB DAT Drive (opal)	295513-B22
Internal 12/24-GB DAT Drive (opal) (Japan)	295513-292

Note: Please see the 12/24-GB DAT Drive QuickSpecs for additional options such as cassettes and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/10239_div/10239_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/10239_na/10239_na.HTML (North America)

HP StorageWorks 20/40-GB DAT DDS-4 Tape Drive, Internal (Carbon) (WW)	157769-B22
HP StorageWorks 20/40-GB DAT DDS-4 Tape Drive, External (Carbon) (NA)	157770-002
HP StorageWorks 20/40-GB DAT DDS-4 Tape Drive, External (Int'l) (Carbon)	157770-B32
HP StorageWorks 20/40-GB DAT DDS-4 Tape Drive, External (Japan) (Carbon)	157770-292
HP StorageWorks Internal 20/40-GB DAT, Hot Plug (Carbon)	215488-B21

Note: Please see the 20/40-GB DAT Tape Drive QuickSpecs for additional options such as host bus adapters, controllers, cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/10426_div/10426_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/10426_na/10426_na.HTML (North America)

Internal and External Ultrium 230 Tape Drives for ProLiant

HP StorageWorks Ultrium 230 Tape Drive for ProLiant, Internal (Carbon) WW	Q1515A
HP StorageWorks Ultrium 230 Tape Drive for ProLiant, External (Carbon) NA	Q1516A
HP StorageWorks Ultrium 230 Tape Drive for ProLiant, External (Carbon) Int'l	Q1517A

Note: Please see the HP StorageWorks Ultrium 230 Tape Drives for ProLiant QuickSpecs for additional options such as data and cleaning cartridges, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/11415_div/11415_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/11415_na/11415_na.HTML (North America)

Note: One-Button Disaster Recovery is not supported on ProLiant servers

Tape Drives *(continued)*

Internal and External AIT Tape Drives	
HP StorageWorks Internal AIT 35-GB, LVD Tape Drive (Carbon)	216884-B21
HP StorageWorks Internal AIT 35-GB, LVD, Hot Plug (Carbon)	216886-B21
HP StorageWorks External AIT 35-GB, LVD Tape Drive (Carbon)	216885-001
HP StorageWorks External AIT 35-GB, LVD Tape Drive (Carbon) (Int'l)	216885-B31
HP StorageWorks External AIT 35-GB, LVD Tape Drive (Carbon) (Japan)	216885-291
HP StorageWorks Internal AIT 35-GB, LVD, Hot Plug (Carbon)	216886-B21
Note: Please see the AIT 35 GB, LVD Tape Drive QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following: http://www5.compaq.com/products/quickspecs/10712_div/10712_div.HTML (Division/World Wide) http://www5.compaq.com/products/quickspecs/10712_na/10712_na.HTML (North America)	
HP StorageWorks AIT 50-GB Tape Drive, Internal (Carbon) (WW)	157766-B22
HP StorageWorks AIT 50-GB Tape Drive, External (Carbon) (NA)	157767-002
HP StorageWorks AIT 50-GB Tape Drive, External (Int'l) (Carbon)	157767-B32
HP StorageWorks AIT 50-GB Tape Drive, External (Japan) (Carbon)	157767-292
HP StorageWorks Internal AIT 50-GB, Hot Plug (Carbon)	215487-B21
HP StorageWorks AIT 50GB Tape Drive, 3U Rackmount	274333-B21
Note: Please see the AIT 50-GB Tape Drive QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following: http://www5.compaq.com/products/quickspecs/10425_div/10425_div.HTML (Division/World Wide) http://www5.compaq.com/products/quickspecs/10425_na/10425_na.HTML (North America)	
HP StorageWorks Internal AIT 100-GB Tape Drive (Carbon)	249189-B21
HP StorageWorks External AIT 100-GB Tape Drive (Carbon)	249160-001
HP StorageWorks External AIT 100-GB Tape Drive (Carbon) (Int'l)	249160-B31
HP StorageWorks Internal AIT 100-GB, Hot Plug (Carbon)	249161-B21
Note: Please see the AIT 100-GB Tape Drive QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following: http://www5.compaq.com/products/quickspecs/11062_div/11062_div.HTML (Division/World Wide) http://www5.compaq.com/products/quickspecs/11062_na/11062_na.HTML (North America)	

Internal and External DLT Tape Drives	
Internal 20/40-GB DLT Drive (opal) WW	340743-B22
Internal 20/40-GB DLT Drive (opal) (Japan)	340743-292
External 20/40-GB DLT Drive (opal) WW	340744-B22
External 20/40-GB DLT Drive (opal) (Japan)	340744-292
Note: Please see the 20/40-GB DLT Drive QuickSpecs for additional options such as data and cleaning cartridges, and for an up-to-date listing of the latest O/S Support details, please see the following: http://www5.compaq.com/products/quickspecs/10234_div/10234_div.HTML (Division/World Wide) http://www5.compaq.com/products/quickspecs/10234_na/10234_na.HTML (North America)	
HP StorageWorks 40/80-GB DLT Tape Drive, Internal (carbon) WW	146196-B22
HP StorageWorks 40/80-GB DLT Tape Drive, External (carbon) INTL	146197-B23
HP StorageWorks 40/80-GB DLT Tape Drive, External (Japan) (carbon)	146197-293

Tape Drives *(continued)*

Internal and External DLT VS Tape Drives	
HP StorageWorks DLT VS 40/80 Tape Drive, Internal (carbon) WW	280129-B21
HP StorageWorks DLT VS 40/80 Tape Drive, External (carbon) NA	280129-B22
HP StorageWorks DLT VS 40/80 Tape Drive, External (carbon) INTL	280129-B31
HP StorageWorks DLT VS 40/80 Tape Drive, External (carbon) Japan	280129-291
Note: Please see the 40/80-GB DLT VS Drive QuickSpecs for additional options such as host bus adapters, controllers, cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following: http://www5.compaq.com/products/quickspecs/11403_div/11403_div.HTML (Division/World Wide) http://www5.compaq.com/products/quickspecs/11403_na/11403_na.HTML (North America)	
Rackmount DLT 40/80, 3U (Single Drive)	274332-B21
Rackmount DLT 40/80, Dual Drive 3U (Two Drives)	274335-B21
Rackmount DLT 40/80, Tape Array III, 5U (Four Drives)	274337-B21
Note: Please see the 40/80-GB DLT Drive QuickSpecs for additional options such as host bus adapters, controllers, cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following: http://www5.compaq.com/products/quickspecs/10658_div/10658_div.HTML (Division/World Wide) http://www5.compaq.com/products/quickspecs/10658_na/10658_na.HTML (North America)	

Internal and External SDLT Tape Drives	
HP StorageWorks SDLT 110/220, Internal (carbon) (WW)	192106-B25
HP StorageWorks SDLT 110/220, External (Carbon) (NA)	192103-002
HP StorageWorks SDLT 110/220, External Int'l (carbon)	192103-B32
HP StorageWorks SDLT 110/220, External Japan (Carbon)	192103-292
Note: Please see the SDLT 110/220-GB Tape Drive QuickSpecs for additional options such as adapters, controllers, and media, and for an up-to-date listing of the latest O/S Support details, please see the following: http://www5.compaq.com/products/quickspecs/10772_div/10772_div.HTML (Division/World Wide) http://www5.compaq.com/products/quickspecs/10772_na/10772_na.HTML (North America)	
HP StorageWorks SDLT 160/320, Internal (carbon) (WW)	257319-B21
HP StorageWorks SDLT 160/320, External NA (carbon)	257319-001
HP StorageWorks SDLT 160/320, External INTL (carbon)	257319-B31
HP StorageWorks SDLT 160/320, External Japan (carbon)	257319-291
Note: Please see the HP StorageWorks SDLT 160/320-GB Tape Drive QuickSpecs for additional options such as adapters, controllers, and media, and for an up-to-date listing of the latest O/S Support details, please see the following: http://www5.compaq.com/products/quickspecs/11406_div/11406_div.HTML (Division/World Wide) http://www5.compaq.com/products/quickspecs/11406_na/11406_na.HTML (North America)	
Rackmount SDLT 110/220, 3U (Single Drive)	274331-B21
Rackmount SDLT 110/220, Dual-Drive, 3U (Two Drives)	274334-B21
Rackmount SDLT 110/220, Tape Array III, 5U (Four Drives)	274336-B21
Note: Please see the SDLT 110/220-GB Tape Drive QuickSpecs for additional options such as adapters, controllers, and media, and for an up-to-date listing of the latest O/S Support details, please see the following: http://www5.compaq.com/products/quickspecs/10772_div/10772_div.HTML (Division/World Wide) http://www5.compaq.com/products/quickspecs/10772_na/10772_na.HTML (North America)	

External SuperLoader	
DLT1 1280 SuperLoader	268664-B21
Note: Please see the StorageWorks DLT1 1280 SuperLoader QuickSpecs for additional options and for an up-to-date listing of the latest O/S Support details, please see the following: http://www5.compaq.com/products/quickspecs/11330_div/11330_div.HTML (Division/World Wide) http://www5.compaq.com/products/quickspecs/11330_na/11330_na.HTML (North America)	

Tape Drives *(continued)*

Internal and External hp StorageWorks Ultrium 460 tape drive for ProLiant	
HP StorageWorks Ultrium 460 Tape Drive for ProLiant, Internal (Carbon) WW	Q1518A
HP StorageWorks Ultrium 460 tape drive for ProLiant, external (Carbon) NA	Q1519A
HP StorageWorks Ultrium 460 tape drive for ProLiant, external (Carbon) Int'l	Q1520A

Note: Please see the HP StorageWorks Ultrium 460 Tape Drive QuickSpecs for additional options such as controllers, and other related items, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/11404_div/11404_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/11404_na/11404_na.HTML (North America)

1/8 Autoloader	
HP Storage Works 1/8 Autoloader, DLT vs 80	C9264CB
HP Storage Works 1/8 Autoloader, Ultrium 230	C9572CB
Rackmount Kit for 1/8 Autoloader	C9268R

Note: Please see the 1/8 Autoloader QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/11496_div/11496_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/11496_na/11496_na.HTML (North America)

Internal and External AIT Autoloader	
HP StorageWorks AIT 35 GB Autoloader, Rackmount (carbon) (NA)	280349-001
HP StorageWorks AIT 35 GB Autoloader, Rackmount (carbon) (Int'l)	280349-B31
HP StorageWorks AIT 35 GB Autoloader Tabletop (carbon) (NA)	280349-001
HP StorageWorks AIT 35 GB Autoloader, Tabletop (carbon) (Int'l)	280349-B31

Note: Please see the 20/40-GB DAT DDS-4 8 Cassette Autoloader QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/11404_div/11404_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/11404_na/11404_na.HTML (North America)

Rackmount Tape Drive Kits	
3U Rackmount Kit	274338-B21

Note: The 3U Rackmount Kit (PN 274338-B21) can support up to (2) full-height or (4) half-height tape drives and compatible with multiple Single-Ended and LVD SCSI Tape Drives including the 12/24-GB DAT, 20/40-GB DAT, 20/40-GB DAT DDS-4 8 Cassette Autoloader, AIT 35-GB LVD, AIT 50 GB, 20/40-GB DLT, 40/80-GB DLT, SDLT 110/220-GB, and Ultrium 230 Tape Drives.

5U Rackmount Kit	274339-B21

Note: The 5U Rackmount Kit (PN 274339-B21) can support up to (4) full-height tape drives and is compatible with all DLT/SDLT tape drives including the 20/40-GB DLT, 35/70-GB DLT, 40/80-GB DLT, SDLT 110/220-GB, and Ultrium 230 Tape Drives.

Note: Please see the Rackmount Tape Drive Kits QuickSpecs for additional information regarding these kits, please see the following:
http://www5.compaq.com/products/quickspecs/10854_div/10854_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/10854_na/10854_na.HTML (North America)

Options

Tape Drives *(continued)*

Rackmount Tape Drive Cable Kits	
LVD Cable Kit, VHDCI/HD68 Note: For use with the 3U RM Storage Enclosure and DLT Tape Array III only.	168048-B21
LVD Cable Kit, HD68/HD68 Note: For use with the 3U RM Storage Enclosure and DLT Tape Array III only.	242381-B21

Tape Automation

SSL2020 – AIT50 based library with up to 2 drives and 20 slots	
SSL2020 AIT Mini-Library 1 drive, 20 slot Table Top	175195-B21
SSL2020 AIT Mini-Library 2 drive, 20 slot Table Top	175195-B22
SSL2020 AIT Mini-Library 1 drive, 20 slot Rackmount	175196-B21
SSL2020 AIT Mini-Library 2 drive, 20 slot Rackmount	175196-B22
SSL2020 AIT Library Pass Thru with Transport	175312-B21

Add-on drives and accessories	
SSL2020 AIT Library Pass Thru Extender	175312-B22
AIT 50GB Drive Add-On LVD Drive for SSL2020 AIT Library	175197-B21
19 Slot Magazine for SSL2020 AIT Library	175198-B21
AIT 50-GB Data Cassette (5 pack)	152841-001
AIT Cleaning Cassette	402374-B21

Note: Please see the SSL2020 Automated AIT Tape Library Solution QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at:
http://www5.HP.com/products/quickspecs/10580_na/10580_na.HTML (North America)
http://www5.HP.com/products/quickspecs/10580_div/10580_div.HTML (Division/World Wide)

MSL5060L1 – LTO Ultrium 1 based departmental library up to 4 drives and 60 slots	
MSL5060L1, 0 DRV LTO1 RM Library	301899-B21
MSL5060L1, 2 DRV LTO1 RM Library	301899-B22
MSL5060L1, 2 DRV LTO1 TT Library	301900-B21
MSL5060L1FC, 2 DRV LTO1 RM-with integrated FC router	301899-B23

Note: Please see the *StorageWorks* MSL5060 LTO Library QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at:
http://www5.compaq.com/products/quickspecs/11438_na/11438_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/11438_div/11438_div.HTML (Division/World Wide)

MSL5052S2 – SDLT160 based departmental library up to 4 drives and 52 slots	
MSL5052S2, RM 0 DRV SDLT ALL	255102-B21
MSL5052S2, 2 DRV SDLT2 TT LIB	293476-B21
MSL5052S2, 2 DRV SDLT2 RM LIB	293474-B21
MSL5052S2FC 2 DRV SDLT2 RM- with integrated FC router	293474-B24

Note: Please see the *StorageWorks* MSL5052S2 Library QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at:
http://www5.compaq.com/products/quickspecs/11442_na/11442_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/11442_div/11442_div.HTML (Division/World Wide)

Options

Tape Automation ***(continued)***

StorageWorks MSL5000 mid-range libraries	
MSL5030L1 – LTO Ultrium 1 mid-range library up to 2 drives and 30 slots	
MSL5030L1, 0 DRV LTO1 RM Library	301897-B21
MSL5030L1, 1 DRV LTO1 RM Library	301897-B22
MSL5030L1, 2 DRV LTO1 RM Library	301897-B23
MSL5030L1, 1 DRV LTO1 TT Library	301898-B21
MSL5030L1, 2 DRV LTO1 TT Library	301898-B22
MSL5030L1FC, 1 DRV LTO1 RM- with integrated FC router	301897-B24
MSL5030L1FC, 2 DRV LTO1 RM- with integrated FC router	xxxxxx-B24

Note: Please see the *StorageWorks* MSL5030 LTO Library QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at:
http://www5.compaq.com/products/quickspecs/11439_na/11439_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/11439_div/11439_div.HTML (Division/World Wide)

MSL5026S2 – SDLT160 based mid-range library up to 2 drives and 26 slots	
MSL5026S2, 0 DRV SDLT2 RM Library	293472-B21
MSL5026S2, 1 DRV SDLT2 RM Library	293472-B22
MSL5026S2, 2 DRV SDLT2 RM Library	293472-B23
MSL5026S2, 1 DRV SDLT2 TT Library	293473-B21
MSL5026S2, 2 DRV SDLT2 TT Library	293473-B22
MSL5026S2FC, 1 DRV SDLT2 RM- with integrated FC router	293472-B24
MSL5026S2FC, 2 DRV SDLT2 RM- with integrated FC router	293472-B25

Note: Please see the *StorageWorks* MSL5026SL Library QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at:
http://www5.compaq.com/products/quickspecs/11453_na/11453_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/11453_div/11453_div.HTML (Division/World Wide)

MSL5026SL Graphite – SDLT110 based mid-range library up to 2 drives and 26 slots	
MSL5026SL, 1 DRV SDLT TT, graphite	302511-B21
MSL5026SL, 2 DRV SDLT TT, graphite	302511-B22
MSL5026SL, 1 DRV SDLT RM, graphite	302512-B21
MSL5026SL, 2 DRV SDLT RM, graphite	302512-B22

Note: Please see the *StorageWorks* MSL5026SL Graphite Library QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at:
http://www5.compaq.com/products/quickspecs/11440_na/11440_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/11440_div/11440_div.HTML (Division/World Wide)

MSL5026SL Opal – SDLT110 based mid-range library up to 2 drives and 26 slots	
MSL5026, 0 DR, LVD, RM	231979-B21
MSL5026SL, 1 SDLT 110/220,LVD, TT	231822-B21
MSL5026SL, 2 SDLT 110/220,LVD, TT	231822-B22
MSL5026SL, 1 SDLT 110/220,LVD, RM	231892-B21
MSL5026SL, 2 SDLT 110/220,LVD, RM	231892-B22

MSL5026DLX– 40/80GB DLT based mid-range library up to 2 drives and 26 slots	
MSL5026DLX, 1 40/80GB DLT, LVD, TT	231821-B21
MSL5026DLX, 2 40/80GB DLT, LVD, TT	231821-B22
MSL5026DLX, 1 40/80GB DLT, LVD, RM	231891-B21
MSL5026DLX, 2 40/80GB DLT, LVD, RM	231891-B22

Note: Please see the *StorageWorks* MSL5026DLX Library QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at:
http://www5.compaq.com/products/quickspecs/10860_na/10860_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/10860_div/10860_div.HTML (Division/World Wide)

Options

Tape Automation ***(continued)***

StorageWorks MSL5000 mid-range libraries *(continued)*	
MSL5000 Add-on drives & accessories	
MSL5000 SDLT 160/320 Upgrade DRV (MSL5052S2 & MSL5026S2 only)	293475-B21
MSL5000 LTO Ultrium 1 Upgrade DRV (MSL5060L1 & MSL5030L1 only)	301901-B21
MSL5000 SDLT 110/220 Upgrade DRV	231823-B22
MSL5000 40/80GB DLT Upgrade DRV	231823-B21
MSL5000 Dual Magazine LTO (2 X 15 slot magazines)	301902-B21
MSL5000 Dual Magazine DLT (2 X 13 slot magazines)	232136-B21
MSL5000 pass through mechanism 10 U (required for multi -unit scalability)	231824-B21
MSL5000, Pass through mechanism 10U (includes elevator mechanism and router, required to connect first two units in a stack)	231824-B21
MSL5026, 5U Pass through extender (required one for each unit connected to the stack, for third and additional units) – for MSL5026 & MSL5030	231824-B22
MSL5052, 10U Pass-Through Extender (required one for each unit connected to the stack, for third and additional units) – for MSL5052 & MSL5060	231824-B23

StorageWorks ESL9000 Enterprise System Library	
ESL9322L1 – LTO Ultrium based enterprise library with up to 8 drives and 222, 322 slots	
ESL9322L1 222 slot 2 DRV LTO1	301927-B22
ESL9322L1 222 slot 8 DRV LTO1	301927-B28
ESL9322L1 322 slot 2 DRV LTO1	301928-B22
ESL9322L1 322 slot 8 DRV LTO1	301928-B28

ESL9322S2 – SDLT160 based enterprise library with up to 8 drives and 222, 322 slots	
ESL9322S2 222 slot 2 DRV SDLT2	293409-B22
ESL9322S2 222 slot 8 DRV SDLT2	293409-B28
ESL9322S2 322 slot 2 DRV SDLT2	293410-B22
ESL9322S2 322 slot 8 DRV SDLT2	293410-B28

Note: Please see the StorageWorks ESL9322S2 Enterprise Library QuickSpecs for additional information including Tape Drives, Cartridges, Controllers, and SCSI Cables and additional options needed for a complete solution at:
http://www5.compaq.com/proudcts/quickspecs/11437_na/11437_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/11437_div/11437_div.HTML (World Wide)

ESL9322: Common Options	
ESL9322, slot upgrade 222 to 322 slots	293588-B21

ESL9595L1 – LTO Ultrium based enterprise library with up to 16 drives and 400, 500, 595 slots	
ESL9595L1 400 slot 2 DRV LTO1	301929-B22
ESL9595L1 400 slot 16 DRV LTO1	301929-B28
ESL9595L1 500 slot 2 DRV LTO1	301931-B22
ESL9595L1 500 slot 16 DRV LTO1	301931-B28
ESL9595L1 595 slot 2 DRV LTO1	301932-B22
ESL9595L1 595 slot 16 DRV LTO1	301932-B28

Note: Please see the StorageWorks ESL9595L1 Enterprise Library QuickSpecs for additional information including Tape Drives, Cartridges, Controllers, and SCSI Cables and additional options needed for a complete solution at:
http://www5.compaq.com/products/quickspecs/11435_na/11435_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/11435_div/11435_div.HTML (World Wide)

Tape Automation ***(continued)***

StorageWorks ESL9000 Enterprise System Library *(continued)*

ESL9595S2 – SDLT160 based enterprise library with up to 16 drives and 400, 500, 595 slots	
ESL9595S2 400 slot 2 DRV SDLT 160/320	293411-B22
ESL9595S2 400 slot 16 DRV SDLT 160/320	293411-B28
ESL9595S2 500 slot 2 DRV SDLT 160/320	293412-B22
ESL9595S2 500 slot 16 DRV SDLT 160/320	293412-B28
ESL9595S2 595 slot 2 DRV SDLT 160/320	293413-B22
ESL9595S2 595 slot 16 DRV SDLT 160/320	293413-B28

Note: Please see the StorageWorks ESL9595S2 Enterprise Library QuickSpecs for additional information including Tape Drives, Cartridges, Controllers, and SCSI Cables and additional options needed for a complete solution at:
http://www5.compaq.com/products/quickspecs/11436_na/11436_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/11436_div/11436_div.HTML (World Wide)

ESL9595SL – SDLT110 based enterprise library with up to 16 drives and 400, 500, 595 slots	
ESL9595SL 400 slots, 2 DRV SDLT110/220	274672-B22
ESL9595SL 400 slots, 16 DRV SDLT110/220	274672-B28
ESL9595SL 500 slots, 2 DRV SDLT110/220	281627-B22
ESL9595SL 500 slots, 16 DRV SDLT110/220	281627-B28
ESL9595SL 595 slots, 2 DRV SDLT110/220	281628-B22
ESL9595SL 595 slots, 16 DRV SDLT110/220	281628-B28

Note: Please see the StorageWorks ESL9595SL Enterprise Library QuickSpecs for additional information including Tape Drives, Cartridges, Controllers, and SCSI Cables and additional options needed for a complete solution at:
http://www5.compaq.com/products/quickspecs/11332_na/11332_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/11332_div/11332_div.HTML (World Wide)

ESL9595: Common Options	
ESL9595SL 400 to 500 slot upgrade	274674-B21
ESL9595SL 500 to 595 slot upgrade	274674-B22
ESL9595SL 400 to 595 slot upgrade	274674-B23

Add-on drives and Accessories	
ESL9000 LVD SDLT 160/320 Drive upgrade (ESL9595S2 and ESL9322S2 only)	293414-B21
ESL9000 LTO1 drive upgrade (ESL9322L1 and ESL9595L1 only)	301930-B21
ESL9000 Universal Load Port (support both LTO & SDLT cartridges) Not removable	302254-B21
ESL9000 Pass-thru kit (graphite) * (multi-unit scalability on above libraries not available at launch)	161268-B23

ESL9326SL – SDLT110 based enterprise library with up to 16 drives and 326 slots	
ESL9326SL Enterprise Library LVD 0 Drives	234488-B21
ESL9326SL Enterprise Library LVD 6 110/220 SDLT Drives	234615-B21
ESL9326SL Enterprise Library LVD 8 110/220 SDLT Drives	234615-B22
ESL9326SL Enterprise Library LVD 16 110/220 SDLT Drives	234615-B26

ESL9326DX – 40/80GB DLT based HVD enterprise library with up to 16 drives and 326 slots	
ESL9326DX, 0 Drive Unit	146205-B21
ESL9326DX Enterprise Library 6 40/80 Drive	161265-B23
ESL9326DX Enterprise Library 8 40/80 Drive	161265-B24
ESL9326DX Enterprise Library 10 40/80 Drive	161265-B25
ESL9326DX Enterprise Library 12 40/80 Drive	161265-B26
ESL9326DX Enterprise Library 14 40/80 Drive	161265-B27
ESL9326DX Enterprise Library 16 40/80 Drive	161265-B28

Options

Tape Automation ***(continued)***	**StorageWorks ESL9000 Enterprise System Library** *(continued)*	
	ESL9198DLX – 40/80GB DLT based enterprise library with up to 8 drives and 198 slots	
	ESL9198 Enterprise Library LVD, 0 Drives	194993-B21
	ESL9198DLX Enterprise Library 2 40/80 Drive	194993-B22
	ESL9198DLX Enterprise Library 4 40/80 Drive	194993-B24
	ESL9198DLX Enterprise Library 8 40/80 Drive	194993-B28
	ESL9198SL Enterprise Library, LVD 4 110/220 SDLT Drives	234618-B21
	ESL9198SL Enterprise Library, LVD 8 110/220 SDLT Drives	234618-B22
	ESL9000 Add-On 40/80-GB DLT Drive, HVD in Hot Plug Canister (ESL9326DX only)	161267-B21
	ESL9000 Add-On LVD 40/80-GB DLT Drive in Hot Plug Canister (ESL9198DLX only)	221248-B21
	Note: Please see the StorageWorks ESL9198SL Enterprise Library QuickSpecs for additional information including Tape Drives, Cartridges, Controllers, and SCSI Cables and additional options needed for a complete solution at: http://www5.compaq.com/proudcts/quickspecs/10867_na/10867_na.HTML (North America) http://www5.compaq.com/products/quickspecs/10867_div/10867_div.HTML (World Wide)	
	Add-on drives and Accessories	
	ESL9000 Field Upgrade SDLT 110/220, LVD Drive (ESL9198SL, ESL9326SL, ESL9595SL only)	234617-B21
	ESL9000 Field Upgrade SDLT 110/220, HVD Drive (for existing ESL9326D/DX customers)	234617-B22
	LVD Extender Kit for ESL9198DLX, ESL9198SL, ESL9326SL	221249-B21
	ESL 9000 Pass Through Kit for Multi Unit Connectivity	161268-B21
	64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter	129803-B21
	Note: 64-Bit/66Mhz Dual Channel Wide Ultra3 SCSI Adapter is required to support the LVD based libraries	
External Storage – Tower and Rack	StorageWorks Enclosure Model 4314T (tower)	190210-001
	StorageWorks Enclosure Model 4314T (tower) (Int'l)	190210-B31
	StorageWorks Enclosure Model 4314T (tower) (Japan)	190210-291
	StorageWorks Enclosure Model 4314R (rack-mountable)	190209-001
	StorageWorks Enclosure Model 4314R (rack-mountable) (Int'l)	190209-B31
	StorageWorks Enclosure Model 4314R (rack-mountable) (Japan)	190209-291
	StorageWorks Enclosure Model 4354R (rack-mountable)	190211-001
	StorageWorks Enclosure Model 4354R (rack-mountable) (Int'l)	190211-B31
	StorageWorks Enclosure Model 4354R (rack-mountable) (Japan)	190211-291
	Note: The StorageWorks Enclosure 4300 Family supports the Wide Ultra2/Ultra3 1" Hot Plug Hard Drives.	
	StorageWorks Enclosure 4200 Redundant Power Supply Option	119826-B21
	StorageWorks Enclosure 4200 Ultra3 Single Bus I/O Module Option	190212-B21
	StorageWorks Enclosure 4200 Ultra3 Dual Bus I/O Module Option	190213-B21
	StorageWorks Enclosure Tower to Rack Conversion Kit	150213-B21
MSA1000	MSA 1000	201723-B22
	MSA 1000 Controller	218231-B22
	MSA Fibre Channel I/O Module	218960-B21
	MSA1000 Integrated 3-port hub (NT, W2K, NetWare only)	286763-B21
	MSA1000 Fabric Switch	218232-B21
	MSA 1000 Fibre Channel Adapter (FCA) 2101	245299-B21
	Note: Please see the StorageWorks Modular SAN Array 1000 QuickSpecs for additional options and configuration information at: http://www5.compaq.com/products/quickspecs/11033_na/11033_na.HTML (North America) http://www5.compaq.com/products/quickspecs/11033_div/11033_div.HTML (Division/World Wide)	

Options

StorageWorks RAID Array 4100	StorageWorks Raid Array 4100 (rack)	146013-001
	StorageWorks Raid Array 4100 (rack) (Int'l)	146013-B31
	StorageWorks Raid Array 4100 (rack) (Japan)	146013-291
	Fibre Channel Storage Hub 7	234453-001
	Fibre Channel Storage Hub 7 (Int'l)	234453-B31
	Fibre Channel Storage Hub 7 (Japan)	234453-291
	Compaq Storage Hub 7 Universal Rack Mount Kit	136127-B21
	64-bit/66-MHz Fibre Channel Host Adapter	120186-B21
	64-bit/66-MHz Fibre Channel Host Adapter (Japan)	120186-291
	StorageWorks Raid Array 4000 Redundant Array Controller	223187-B21
	StorageWorks Fibre Channel Arbitrated Loop Switch 8	177862-B21
	StorageWorks Fibre Channel Arbitrated Loop Switch 8 (Japan)	177862-291
	StorageWorks Fibre Channel Arbitrated Loop 3-Port Expansion Module	177863-B21
	StorageWorks Fibre Channel SAN Switch 8-EL	176219-B21
	Fibre Channel Host Adapter Redundancy Kit	174681-B21
	GBIC-SW Connector Kit (two each)	234459-B21
	GBIC-LW Connector Kit (two each)	340412-B21
	Fibre Channel Connection Kit, 3 SW GBICS, 2 Cables	380579-B21
	Fibre Channel Connection Kit, 2 SW GBICS, 2 Cables	380596-B21
	Fibre Channel short-wave GBIC	380561-B21
	Fibre Channel long-wave GBIC	127508-B21
	2m Multi-Mode Fibre Channel Cable	234457-B21
	5m Multi-Mode Fibre Channel Cable	234457-B22
	15m Multi-Mode Fibre Channel Cable	234457-B23
	30m Multi-Mode Fibre Channel Cable	234457-B24
	50m Multi-Mode Fibre Channel Cable	234457-B25
	Note: Please see the StorageWorks RAID Array 4100 QuickSpecs for FC Hubs, FC switches, software support, host adapters/controllers, disks, and options for complete solutions at: http://www5.compaq.com/products/quickspecs/10435_na/10435_na.HTML (North America) http://www5.compaq.com/products/quickspecs/10435_div/10435_div.HTML (Division/World Wide)	
StorageWorks Modular Array 8000/Enterprise Modular Array 12000	EMA12000 D14 60 Hz	175990-B21
	EMA12000 D14 50 Hz	175990-B22
	EMA12000 S14 60 Hz	175991-B21
	EMA12000 S14 50 Hz	175991-B22
	MA8000 60 Hz	175992-B21
	MA8000 50 Hz	175992-B22
	EMA12000 Blue 60 Hz	175993-B21
	EMA12000 Blue 50 Hz	175993-B22
	Note: Options include controller, solution kits, ACS. MA8000/EMA12000 includes controller shelf, drive shelves and cabinet. Packaging upgrade to RA8000/ESA12000.	
	Note: Please see the StorageWorks MA8000/EMA12000 QuickSpecs for FC Hubs, FC switches, platform software, host adapters, disks and options for complete solutions at: http://www5.compaq.com/products/quickspecs/10545_na/10545_na.HTML (North America) http://www5.compaq.com/products/quickspecs/10545_div/10545_div.HTML (Division/World Wide)	

Options

StorageWorks Enterprise Modular Array 16000 FC	EMA16000 D14 50 Hz (opal)	238792-B22
	EMA16000 D14 60 Hz (opal)	238792-B21
	EMA16000 S14 50 Hz (opal)	238791-B22
	EMA16000 S14 60 Hz (opal)	238791-B21
	Note: Models include: Dual HSG80 controllers in each Model 2200 enclosure (2 pairs per single bus configuration, 4 pairs per dual bus configuration) with 1GB cache per controller pair, and 12 14-bay drive enclosures with redundant power supplies. Configure-to-Order (CTO) builds are available. Options include ACS, platform kits and *SANworks*™ software by HP.	
	Note: Please see the StorageWorks EMA16000 QuickSpecs for FC switches, platform software, host adapters, disks and options for complete solutions at: http://www5.compaq.com/products/quickspecs/10812_na/10812_na.HTML (North America) http://www5.compaq.com/products/quickspecs/10812_div/10812_div.HTML (Division/World Wide)	
StorageWorks Options		
	Fibre Channel SAN Switch/16 with Fabric Operating Software	158223-B21
	StorageWorks SAN Switches Integrated/32	230616-B21
	StorageWorks SAN Switches Integrated/64	230617-B21
	StorageWorks Fibre Channel SAN Switches 8-EL	176219-B21
	StorageWorks SAN Switch 2/8-EL	258707-B21
	StorageWorks SAN Switch 2/16-EL	283056-B21
	StorageWorks SAN Switch 2/8-EL Upgrade Kit	288162-B21
	StorageWorks SAN Switch 2/16-EL Upgrade Kit	288250-B21
Compaq UPS Power Cord Reference Guide	Please see the Compaq UPS Power Cord Reference Guide for that lists cable descriptions, requirements, and specifications for Compaq UPS units. http://www.compaq.com/products/servers/proliantstorage/power-protection/options/index.html	
Uninterruptible Power Systems - Tower	UPS Model T1000 XR (1000VA, 700 Watt), Low Voltage (NA)	204155-001
	UPS Model T1000 XR ((1000VA, 700 Watt), High Voltage (Int'l)	204155-B31
	UPS Model T1500 XR (1440VA, 1050 Watt), Low Voltage (NA)	204155-002
	UPS Model T1500 XR (1500VA, 1050 Watt), High Voltage (Int'l)	204155-B32
	UPS Model T1500 XR (1500VA, 1050 Watt), Low Voltage (Japan)	204155-292
	UPS Model T2200 XR (1920VA, 1600 Watt), Low Voltage (NA)	204451-001
	UPS Model T2200 XR (2080VA, 1600 Watt), High Voltage (NA)	204451-002
	UPS Model T2200 XR (2200VA, 1600 Watt), Low Voltage (NA)	204451-B31
	UPS Model T2200 XR (2200VA, 1600 Watt), Low Voltage (Japan)	204451-291
Uninterruptible Power Systems – Rack	Compaq UPS R1500 XR (1440VA, 1340 Watt), Low Voltage (NA)	204404-001
	Compaq UPS R1500 XR (1500VA, 1340 Watt), High Voltage (Int'l)	204404-B31
	Compaq UPS R1500 XR (1500VA, 1340 Watt), Low Voltage (Japan)	204404-291
	Compaq UPS R3000 XR (2880VA, 2700 Watt), Low Voltage (NA)	192186-001
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (NA	192186-002
	Compaq UPS R3000 XR (2400VA, 2250 Watt), Low Voltage (Japan)	192186-291
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Japan)	192186-292
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Int'l - detachable cord)	192186-B31
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A IEC309 Plug)	192186-B32
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A CEE 7/7 SCHUKO Plug)	192186-B33
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A BS-546 Plug)	192186-AR1
	Rack-Mountable UPS R6000 (6000VA, 6000 Watt) High Voltage (NA)	347207-001
	Rack-Mountable UPS R6000 (6000VA, 6000 Watt) High Voltage (Int'l)	347207-B31
	Rack-Mountable UPS R6000 (6000VA, 6000 Watt) High Voltage (Japan)	347207-291
	Compaq UPS R12000 XR, N+x (12KVA, 12KW) High Voltage (WW)	207552-B22
	Note: UPS R6000 has a hardwired input; and the UPS R12000 XR has a hardwired input and output connection.	

Options

UPS Options	SNMP Serial Port Card Note: Supports tower and rack UPS XR models ranging from 1000 - 3000VA.	192189-B21
	Six Port Card Note: Supports tower and rack UPS XR models ranging from 1000 - 3000VA.	192185-B21
	High to Low Voltage Transformer (250VA) Note: Supports R6000 UPS series only. 2.5 amps @ 125 Volts max output across two NEMA 5-15.	388643-B21
	Extended Runtime Module, T1000 XR Note: 2U each, two ERM maximum.	218967-B21
	Extended Runtime Module, T1500 XR/T2200 XR Note: 3U each, one ERM maximum.	218969-B21
	Extended Runtime Module, R1500 XR Note: 2U each, two ERM maximum.	218971-B21
	Extended Runtime Module, R3000 XR Note: 3U each, one ERM maximum.	192188-B21
	Extended Runtime Module, R6000 Note: 3U each, two ERM maximum.	347224-B21
	Extended Runtime Module, R12000 XR, 4U each, two ERMs maximum	217800-B21
	SNMP-EN Adapter Note: Supports R6000 UPS series only.	347225-B21
	Multi-Server UPS Card Note: Supports R6000 UPS series only.	123508-B21
	Scalable UPS Card Note: Supports R6000 UPS series only.	123509-B21
Rack-Mountable PDUs – 1U/0U (Up to 12 outlets) Note: 0U mounting brackets shipped with the unit (separate option kit for 1U mounting).	Compaq Power Distribution Unit-16A (200 to 240V) (WW) Note: The 16A PDU also connects to the high volt models of the UPS R3000 XR (need cable P/N 340653-001 for North America) and the UPS R6000 models. Cable P/N 340653-001 required if connecting to UPS R3000 XR (192186-002 NA-High Volt model only).	207590-B21
	Compaq Power Distribution Unit-24A (200 to 240V) (NA, Japan, LA) Note: This PDU may also be used to connect to the low volt UPS R3000 XR model.	207590-D72
	Compaq Power Distribution Unit-32A (200 to 240V) (Int'l)	207590-B31
	Compaq Power Distribution Unit-40A (200 to 240V)	207590-B23
	Compaq Power Distribution Unit-24A (100 to 127V) (NA, Japan, LA)	207590-D71
	1U PDU Mounting Brackets Kit	215852-B21
	Note; Please see the following Power Distribution Unit (Zero-U/1U PDU) QuickSpecs for additional options including cables: http://www5.compaq.com/products/quickspecs/10838_na/10838_na.HTML (North America) http://www5.compaq.com/products/quickspecs/10838_div/10838_div.HTML (Division/World Wide)	
Dual Input PDUs – 1U/0U (Up to 12 outlets) Note: 1U/0U mounting brackets shipped with the unit (optimized for 10000 and 9000 series racks)	Compaq Dual Input Power Distribution Unit-24A High Voltage (NA only)	191186-001
	Compaq Dual Input Power Distribution Unit-24A High Voltage (Int'l)	191186-B31
	Note: Please see the following Power Distribution Unit (Zero-U/1U PDU) QuickSpecs for additional options including cables: http://www5.compaq.com/products/quickspecs/10838_na/10838_na.HTML (North America) http://www5.compaq.com/products/quickspecs/10838_div/10838_div.HTML (Division/World Wide)	

Options

Modular PDUs – 1U/0U (Up to 32 outlets) Note: 1U/0U mounting brackets shipped with the unit (optimized for 10000 and 9000 series racks)	Modular Power Distribution Units (mPDU), High Volt Model, 16A (200-240 VAC) (WW) Note: This model has a detachable input power cord and is adaptable to country specific requirements. The 16A PDU also connects to the high volt models of the UPS R3000 XR and R6000 models. Cable P/N 340653-001 required if connecting to UPS R3000 XR (192186-002 NA -High Volt model only).	252663-B24
	Modular Power Distribution Units (mPDU), Low Volt Model, 24A (100-127 VAC) (NA, Japan) Note: This model has a detachable input power cord and is adaptable to country specific requirements. The 16A PDU also connects to the high volt models of the UPS R3000 XR and R6000 models. Cable P/N 340653-001 required if connecting to UPS R3000 XR (192186-002 NA -High Volt model only).	252663-D71
	Modular Power Distribution Units (mPDU), High Volt Model, 24A (200-240 VAC) (NA, Japan)	252663-D72
	Modular Power Distribution Units (mPDU), High Volt Model, 32A (200-240 VAC) (Int'l)	252663-B31
	Modular Power Distribution Units (mPDU), High Volt Model, 40A (200-240 VAC) (WW) Note: The 40A model has a hardwired input.	252663-B21
	Note: Please see the following Modular Power Distribution Unit (Zero-U/1U Modular PDUs) QuickSpecs for additional options including cables: http://www5.compaq.com/products/quickspecs/11041_na/11041_na.HTML (North America) http://www5.compaq.com/products/quickspecs/11041_div/11041_div.HTML (Division/World Wide)	
Rack Builder	***Compaq Rack Builder for configuration assistance at*** http://www.compaq.com/rackbuilder/.	
Rack Conversion Kit	ProLiant Tower to Rack Conversion Kit Note: This Tower to Rack Conversion Kit (PN 253699-B21) supports the ProLiant ML570 G2 and ML530 G2 servers.	253699-B21
	ProLiant Rack to Tower Conversion Kit Note: This Rack to Tower Conversion Kit (PN 271258-B21) supports the ProLiant ML570 G2 and ML530 G2 servers.	271258-B21
Third Party Rack Kit	ML570 G2 rack model support: The ML570 G2 Third Party rack kit provides support for any rack, 274739-B21 square hole or round hole, (including HP Rack System /E and HP Systems), with an adjustment range from 23 1/2"– 34" deep. Note: The Third party rack kit is required for round hole racks or for square hole racks that do not conform to the adjustment range of the standard rail that ships with the server.	274739-B21
Telco Rack Support	ML570 G2 rack model support: Support for all 2-post Telco racks requires the Third Party Rack 274739-B21 option kit plus an additional option kit from Rack Solutions. The Rack Solutions brackets can be purchased at: http://www.racksolutions.com/compaq	274739-B21
Compaq Rack 10000 Series (Graphite Metallic)	Compaq Rack 10842 (42U, 800 mm wide) Rack Cabinet - Pallet	257415-B21
	Compaq Rack 10842 (42U, 800 mm wide) Rack Cabinet - Shock Pallet	257415-B22
	Compaq Rack 10647 (47U) – Pallet	245160-B21
	Compaq Rack 10647 (47U) – Crated	245160-B23
	Compaq Rack 10642 (42U) – Pallet	245161-B21
	Compaq Rack 10642 (42U) – Shock Pallet	245161-B22
	Compaq Rack 10642 (42U) – Crated	245161-B23
	Compaq Rack 10636 (36U) – Pallet	245162-B21
	Compaq Rack 10636 (36U) – Shock Pallet	245162-B22
	Compaq Rack 10636 (36U) – Crate	245162-B23
	Compaq Rack 10622 (22U) – Pallet	245163-B21
	Compaq Rack 10622 (22U) – Shock Pallet	245163-B22
	Compaq Rack 10622 (22U) – Crated	245163-B23
	Note: -B21 (pallet) used to ship empty racks shipped on a truck -B22 (shock pallet) used to ship racks with equipment installed (by custom systems, VARs and Channels) -B23 (crated) used for air shipments of empty racks	

Options

Compaq Rack 9000 Series (Opal)	Compaq Rack 9142 (42U) – Pallet	120663-B21
	Compaq Rack 9142 (42U) – Shock Pallet	120663-B22
	Compaq Rack 9142 (42U) – Crated	120663-B23
	Compaq Rack 9136 (36U) – Pallet	120664-B21
	Compaq Rack 9136 (36U) – Shock Pallet	120664-B22
	Compaq Rack 9136 (36U) – Crated	120664-B23
	Compaq Rack 9122 (22U) – Pallet	120665-B21
	Compaq Rack 9122 (22U) – Shock Pallet	120665-B22
	Compaq Rack 9122 (22U) – Crated	120665-B23
	Compaq Rack 9842 (800mm wide, 42U) - Pallet	222192-B21
	Note: -B21 (pallet) used to ship empty racks shipped on a truck -B22 (shock pallet) used to ship racks with equipment installed (by custom systems, VARs and Channels) -B23 (crated) used for air shipments of empty racks	
Rack Options for Compaq Rack 10000 Series	Rack Blanking Panels – Graphite (Multi) Note: Contains one each of 1U, 2U, 3U and 4U panel.	253214-B26
	Rack Blanking Panels – Graphite (1U) Note: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (1U).	253214-B21
	Rack Blanking Panels – Graphite (2U) Note: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (2U).	253214-B22
	Rack Blanking Panels – Graphite (3U) Note: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (3U).	253214-B23
	Rack Blanking Panels – Graphite (4U) Note: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (4U).	253214-B24
	Rack Blanking Panels – Graphite (5U) Note: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (5U).	253214-B25
	600 mm Stabilizer Kit – Graphite	246107-B21
	800 mm Wide Stabilizer Kit Note: The 800 mm wide Stabilizer (PN 255488-B21) is to be used only with the 10842 rack.	255488-B21
	Baying Kit for Rack 10000 series (Carbon)	248929-B21
	42U Side Panel – Graphite Metallic	246099-B21
	110V Fan Kit (Graphite) Note: Roof Mount Includes power cord withIEC320-C13 to Nema 5-15P.	257413-B21
	220V Fan Kit (Graphite) Note: Roof Mount Includes power cord with IEC320-C13 to Nema 6-15P.	257414-B21
	36U Side Panel – Graphite Metallic	246102-B21
	47U Side Panel – Graphite Metallic	255486-B21
	Monitor/Utility Shelf - Graphite	253449-B21
	9000/10000 Offset Baying Kit (42U) Note: This kit can be used to connect 9000 and 10000 series racks in 42U height together. Kit contents include hardware for connecting racks and a panel to cover the 100 mm gap at the rear of the two racks.	248931-B21
Rack Options for Compaq Rack 9000 Series	Baying/Coupling Kit	120669-B21
	42U Side Panel Note: The 42U Side Panel (PN 120670-B21) supports the Compaq Rack 9142 and Compaq Rack 9842.	120670-B21
	36U Side Panel Note: The 36U Side Panel (PN 120671-B21) supports the Compaq Rack 9136.	120671-B21
	600 mm Stabilizer Option Kit	120673-B21
	800 mm Stabilizer Option Kit (Opal) Note: The 800 mm Stabilizer Kit (PN 234493-B21) supports the Rack 9842 only.	234493-B21
	Rack Blanking Panel Kit (Multi) Note: The Rack Blanking Panel Kit (PN 169940-B21) contains 4 panels – one each of 1U, 2U, 4U and 8U.	169940-B21
	9142 Extension Kit Note: The 9142 Extension Kit (PN 120679-B21) supports the Compaq Rack 9142 only.	120679-B21

Options

Rack Options for Compaq Rack 9000 Series *(continued)*	Stabilizer Option Kit	120673-B21
	Rack Blanking Panel Kit for Rack 9000 series (Opal) (U.S.) Note: The Rack Blanking Panel Kit (PN 169940-B21) contains 4 panels – one each of 1U, 2U, 4U and 8U	169940-B21
	Rack Blanking Panels (1U) Note: The Rack Blanking Panels (PN 189453-B21) contains 10 each of (1U).	189453-B21
	Rack Blanking Panels (2U) Note: The Rack Blanking Panels (PN 189453-B22) contains 10 each of (2U).	189453-B22
	Rack Blanking Panels (3U) Note: The Rack Blanking Panels (PN 189453-B23) contains 10 each of (3U).	189453-B23
	Rack Blanking Panels (4U) Note: The Rack Blanking Panels (PN 189453-B24) contains 10 each of (4U).	189453-B24
	Rack Blanking Panels (5U) Note: The Rack Blanking Panels (PN 189453-B25) contains 10 each of (5U).	189453-B25
	800 mm Stabilizer Option Kit (Opal) Note: The 800 mm Stabilizer Kit (PN 234493-B21) supports the Rack 9842 only.	234493-B21
	9136 Extension Kit	218216-B21
	9142 Short Rear Door Note: The 9142 Short Rear Door (PN 218217-B21) supports the Compaq Rack 9142 only.	218217-B21
	9136 Short Rear Door	218218-B21
	9142 Split Rear Door	254045-B21
	9000/10000 Offset Baying Kit (42U) Note: This kit can be used to connect 9000 and 10000 series racks in 42U height together. Kit contents include hardware for connecting racks and a panel to cover the 100mm gap at the rear of the two racks.	248931-B21
Rack Options for Compaq Rack 7000 Series	High Air Flow Rack Door Insert for 7122	157847-B21
	High Air Flow Rack Door Insert for 7142	327281-B21
	High Air Flow Rack Door Insert for 7142 (6 pack)	327281-B22
	Compaq Networking Cable Management Kit	292407-B21
	Compaq Networking Recessed Rail Management Kit	292406-B21
	Compaq Rack Extension Kit for 7142	154392-B21

Options

Rack Options for Compaq Rack 7000, 9000 and 10000 Series	Ballast Option Kit	120672-B21
	100kg Sliding Shelf	234672-B21
	Rack Rail Adapter Kit (25″ depth)	120675-B21
	Monitor/Utility Shelf - Graphite	253449-B21
	Depth Adjustable Fixed Rail	332558-B21
	Input Device Adjustable Rails Note: Input Device Adjustable Rails (287139-B21) are for use ONLY with the TFT5110R, TFT5600RKM and integrated keyboard/drawer which is used in mounting into third party racks.	287139-B21
	Input Device Telco Rails Note: Input Device Telco Rails (287138-B21) are for use ONLY with the TFT5110R, TFT5600RKM and integrated keyboard/drawer which is used in mounting into third party racks.	287138-B21
	Cable Management D-Rings Kit	168233-B21
	Console Management Controller (CMC) Option Kit	203039-B21
	Console Management Controller (CMC) Sensors Option Kit	203039-B22
	Console Management Controller (CMC) Locking Option Kit	203039-B23
	Console Management Controller (CMC) Smoke Sensors Option Kit	203039-B24
	Server Console Switch 1 x 2 port (100 to 230 VAC)	120206-001
	Server Console Switch 1 x 2 port (100 to 230 VAC) (Int'l)	120206-B31
	Server Console Switch 1 x 2 port (100 to 230 VAC) (Japan)	120206-291
	Server Console Switch 1 x 4 port (100 to 230 VAC)	400336-001
	Server Console Switch 1 x 4 port (100 to 230 VAC) (Int'l)	400336-B31
	Server Console Switch 1 x 4 port (100 to 230 VAC) (Japan)	400336-291
	Server Console Switch 1 x 8 port (100 to 230 VAC)	400337-001
	Server Console Switch 1 x 8 port (100 to 230 VAC) (Int'l)	400337-B31
	Server Console Switch 1 x 8 port (100 to 230 VAC) (Japan)	400337-291
	Server Console Switch 2 x 8 port (100 to 230 VAC)	400338-001
	Server Console Switch 2 x 8 port (100 to 230 VAC) (Int'l)	400338-B31
	Server Console Switch 2 x 8 port (100 to 230 VAC) (Japan)	400338-291
	Server Console Switch 2 x 8 port (48VDC)	400542-B21
	IP Console Switch Box, 1x1x16	262585-B21
	IP Console Switch Box, 3x1x16	262586-B21
	IP Console Interface Adapter, 8 pack	262587-B21
	IP Console Interface Adapter, 1 pack	262588-B21
	IP Console Expansion Module	262589-B21
	KVM 9 PIN Adapter (4 Pack)	149361-B21
	CPU to Server Console Cable, 12′	110936-B21
	CPU to Server Console Cable, 20′	110936-B22
	CPU to Server Console Cable, 40′	110936-B23
	CPU to Server Console Cable, 3′	110936-B24
	CPU to Server Console Cable, 7′	110936-B25
	CPU to Server Console Cable (Plenum Rated) 20′	149363-B21
	CPU to Server Console Cable (Plenum Rated) 40′	149364-B21
	IP CAT5 Cable 3′, 4 pack	263474-B21
	IP CAT5 Cable 6′, 8 pack	263474-B22
	IP CAT5 Cable 12′, 8 pack	263474-B23
	IP CAT5 Cable 20′, 4 pack	263474-B24
	IP CAT5 Cable 40′, 1 pack	263474-B25
	Switch Box Connector Kit (115V)	144007-001
	Switch Box Connector Kit (230V)	144007-002
	Switch Box Connector Kit (high voltage) (Int'l)	144007-B33
	Keyboard/Monitor/Mouse extension cables	169989-001

Rack Options for Compaq Rack 7000, 9000 and 10000 Series *(continued)*

1U Rack Keyboard Drawer			338056-B21
Note: To be used with keyboard with trackball and hot keys (158649-XXX)			
Keyboard with Hot Keys and Trackball			158649-xx1
Country Code Key **(**for Keyboard with Hot Keys and Trackball (PN 158649-xxx))			
XX = 001	US	XX = 009	Norway
XX = 003	UK	XX = 010	Sweden/Finland
XX = 004	Germany	XX = 011	Switzerland
XX = 005	France	XX = 013	Portugal
XX = 006	Italy	XX = 018	Belgium
XX = 007	Spain	XX = 291	Japan
XX = 008	Denmark	XX = B36	International
TFT5600 RKM Rack Keyboard Monitor			221546-xx1
Country Code Key (for TFT5600 RKM Rack Keyboard Monitor (PN 221546-xx1))			
XX = 001	US	XX = 091	Norway
XX = 031	UK	XX = 101	Sweden/Finland
XX = 041	Germany	XX = 111	Switzerland
XX = 051	France	XX = 131	Portugal
XX = 061	Italy	XX = 181	Belgium
XX = 071	Spain	XX = 291	Japan
XX = 081	Denmark	XX = B31	International
1U Rack Keyboard & Drawer (Carbon)			257054-xx1
Country Code Key (for 1U Rack Keyboard & Drawer (PN 257054-xx1))			
XX = 001	US	XX = 091	Norway
XX = 031	UK	XX = 101	Sweden/Finland
XX = 041	Germany	XX = 111	Switzerland
XX = 051	France	XX = 131	Portugal
XX = 061	Italy	XX = 181	Belgium
XX = 071	Spain	XX = 291	Japan
XX = 081	Denmark	XX = B31	International

Service and Support Offerings (CarePaq Services)	***Hardware Services 4-Hour On-site Service***	
	4-Hour On-site Service, 9-Hour x 5-Day Coverage, 3 Years (2-5-2 Part Number for Canada)	FP-MI4HR-36
	4-Hour On-site Service, 9-Hour x 5-Day Coverage, 3 Years (6-3 Part Number for US)	401783-002
	4-Hour On-site Service, 9-Hour x 5-Day Coverage, 3 Years (6-3 Part Number for EMEA)	324418-002
	4-Hour On-site Service, 24 Hour x 7 Day Coverage, 3 Years (2-5-2 for Canada)	FP-MI724-36
	4-Hour On-site Service, 24-Hour x 7-Day Coverage, 3 Years (2-5-2 Part Number for EMEA)	376911-022
	Installation & Start-up Services	
	Hardware Installation (2-5-2 Part Number for Canada)	FP-MIINS-IN
	Hardware Installation (6-3 Part Number for US)	401793-002
	Hardware Installation (6-3 Part Number for EMEA)	Quote
	Pre-installation planning; unpack equipment, install most current Compaq HW options internal to server at same time of server installation; assemble & test; basic user information provided; Install & configure basic functionality of Win NT Operating System plus up to 2 days start-up activity, configure print & network access services, and orientation (2-5-2 Part Number for Canada.)	FM-MSTEC-03
	Pre-installation planning; unpack equipment, install most current Compaq HW options internal to server at same time of server installation; assemble & test; basic user information provided; Install & configure basic functionality of Win NT Operating System plus up to 2 days start-up activity, configure print & network access services, and orientation (6-3 Part Number for U.S.)	240015-002
	Pre-installation planning; unpack equipment, install most current Compaq HW options internal to server at same time of server installation; assemble & test; basic user information provided; Install & configure basic functionality of Novell NetWare Operating System plus up to 2 days start-up activity, configure print & network access services, and orientation (2-5-2 Part Number for Canada)	FM-NSTEC-03
	Pre-installation planning; unpack equipment, install most current Compaq HW options internal to server at same time of server installation; assemble & test; basic user information provided; Install & configure basic functionality of Novell NetWare Operating System plus up to 2 days start-up activity, configure print & network access services, and orientation (6-3 Part Number for U.S.)	240010-002
	Server Installation and Set-Up (Installation of the server, installation of the appropriate service tools, check to ensure device SW and firmware is loaded and installation of the operating system software (6-3 Part Number for EMEA.)	204564-022

Service and Support Offerings (CarePaq Services) ***(continued)***	***CarePaq Priority Services for* ProLiant *Servers – Priority Level***	
	9x5 4-hour H/W, 9x5 2-hour O/S (NT & NetWare), 3 Years (6-3 Part Number for EMEA)	179836-022
	9 x 5 HW, 4-hr response, Next Available HW engineer; 9 x 5 Bronze Software Support 2-hr response for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System, Next Available Specialist (2-5-2 Part Number for Canada)	FM-M01E3-36
	9 x 5 HW, 4-hr response, Next Available HW engineer; 9 x 5 Bronze Software Support 2-hr response for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System, Next Available Specialist (6-3 Part Number for U.S.)	239936-002
	9 x 5 HW, 4-hr response, Next Available HW engineer; 9 x 5 Bronze Software Support 2-hr response for Novell NetWare Operating System, Next Available Specialist (2-5-2 Part Number for Canada)	FM-N01E3-36
	9 x 5 HW, 4-hr response, Next Available HW engineer; 9 x 5 Bronze Software Support 2-hr response for Novell NetWare Operating System, Next Available Specialist (6-3 Part Number for U.S.)	239976-002
	CarePaq Priority Services for* ProLiant *Servers – Priority 24 Level	
	24x7 4-hour H/W, 24x7 2-hour O/S (NT & NetWare), 3 years (6-3 Part Number for EMEA)	179841-002
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Bronze Software Support, 2-hr response for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System, Next Available Specialist (6-3 Part Number for U.S.)	239938-002
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Bronze Software Support, 2-hr response for Novell NetWare Operating System, Next Available Specialist (6-3 Part Number for U.S.)	239978-002
	CarePaq Priority Services for* ProLiant *Servers - Priority Silver	
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Software Support, 1-hr response, Monday – Friday, 8AM – 5PM local time, 2-hr response after hours for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System, Technical Account Manager, Technical Newsletter, SW activity review (2-5-2 Part Number for Canada)	FM-M04E3-36
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Software Support, 1-hr response, Monday – Friday, 8AM – 5PM local time, 2-hr response after hours for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System Operating System, Technical Account Manager, Technical Newsletter, SW activity review (6-3 Part Number for U.S.)	239940-002
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Subsequent System Support for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System (6-3 Part Number for U.S.)	239942-002
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Subsequent System Support for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System (2-5-2 Part Number for Canada)	FM-M24E3-36
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Software Support, 1-hr response, Monday – Friday, 8AM – 5PM local time, 2-hr response after hours for Novell NetWare Operating System, Technical Account Manager, Technical Newsletter, SW activity review (2-5-2 Part Number for Canada)	FM-N04E3-36
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Software Support, 1-hr response, Monday – Friday, 8AM – 5PM local time, 2-hr response after hours for Novell NetWare Operating System, Technical Account Manager, Technical Newsletter, SW activity review (6-3 Part Number for U.S.)	239980-002
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Subsequent System Support for Novell NetWare Operating System (2-5-2 Part Number for Canada.)	FM-N24E3-36
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Subsequent System Support for Novell NetWare Operating System (6-3 Part Number for U.S.)	239982-002

Service and Support Offerings (CarePaq Services) ***(continued)***	***CarePaq Priority Services for ProLiant Servers – Priority Gold***	
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Gold Software Support, 30 minute response (critical), 1-hr response (non-critical), for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System, Technical Account Manager, Technical Newsletter, SW activity review, proactive revision management, Upgrade impact planning, 2 System Healthcheck per year (2-5-2 Part Number for Canada)	FM-M08E3-36
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Gold Software Support, 30 minute response (critical), 1-hr response (non-critical), for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System, Technical Account Manager, Technical Newsletter, SW activity review, proactive revision management, Upgrade impact planning, 2 System Healthcheck per year (6-3 Part Number for U.S.)	239944-002
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Gold Subsequent System Support for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System (2-5-2 Part Number for Canada)	FM-M28E3-36
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Gold Subsequent System Support for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System (6-3 Part Number for U.S.)	239946-002
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Gold Software Support, 30 minute response (critical), 1-hr response (non-critical), for Novell NetWare Operating System, Technical Account Manager, Technical Newsletter, SW activity review, Upgrade impact planning (2-5-2 Part Number for Canada)	FM-N08E3-36
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Gold Software Support, 30 minute response (critical), 1-hr response (non-critical), for Novell NetWare Operating System, Technical Account Manager, Technical Newsletter, SW activity review, Upgrade impact planning (6-3 Part Number for U.S.)	239984-002
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Gold Subsequent System Support for Novell NetWare Operating System (2-5-2 Part Number for Canada)	FM-N28E3-36
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Gold Subsequent System Support for Novell NetWare Operating System (6-3 Part Number for U.S.)	239986-002
	CarePaq Priority Services for* ProLiant *Servers – Priority Gold Executive	
	24 x 7 HW, 2-hr response, Named HW engineer; 24 x 7 Gold Software Support, 30 minute response (critical), 1-hr response (non-critical), for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System, Technical Account Manager, Technical Newsletter, SW activity review, proactive revision management, Upgrade impact planning, 2 System Healthcheck per year (2-5-2 Part Number for Canada)	FM-M09E3-36
	24 x 7 HW, 2-hr response, Named HW engineer; 24 x 7 Gold Software Support, 30 minute response (critical), 1-hr response (non-critical), for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System, Technical Account Manager, Technical Newsletter, SW activity review, proactive revision management, Upgrade impact planning, 2 System Healthcheck per year (6-3 Part Number for U.S.)	239948-002
	24 x 7 HW, 2-hr response, Named HW engineer; 24 x 7 Gold Subsequent System Support for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System (2-5-2 Part Number for Canada)	FM-M29E3-36
	24 x 7 HW, 2-hr response, Named HW engineer; 24 x 7 Gold Subsequent System Support for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System (6-3 Part Number for U.S.)	239950-002
	24 x 7 HW, 2-hr response, Named HW engineer; 24 x 7 Gold Software Support, 30 minute response (critical), 1-hr response (non-critical), for Novell NetWare Operating System, Technical Account Manager, Technical Newsletter, SW activity review, Upgrade impact planning (2-5-2 Part Number for Canada.)	FM-N09E3-36
	24 x 7 HW, 2-hr response, Named HW engineer; 24 x 7 Gold Software Support, 30 minute response (critical), 1-hr response (non-critical), for Novell NetWare Operating System, Technical Account Manager, Technical Newsletter, SW activity review, Upgrade impact planning (6-3 Part Number for U.S.)	239988-002
	24 x 7 HW, 2-hr response, Named HW engineer; 24 x 7 Gold Subsequent System Support for Novell NetWare Operating System (2-5-2 Part Number for Canada)	FM-N29E3-36
	24 x 7 HW, 2-hr response, Named HW engineer; 24 x 7 Gold Subsequent System Support for Novell NetWare Operating System (6-3 Part Number for U.S.)	239990-002
	Note: For more information, customer/resellers can contact http://www.compaq.com/services. Note: This Web site is available in English only.	

Memory

HP ProLiant ML570 G2 1.90 GHz , 1.50 GHz, 2.0 GHz or 1.40 GHz 2P Models

STANDARD MEMORY

1024-MB PC1600-MHz Registered ECC SDRAM DIMM installed (2 x 512-MB SDRAM DIMM)

STANDARD MEMORY PLUS OPTIONAL MEMORY

Up to 29,696-MB of memory is available with the optional installation of PC1600-MHz Registered ECC SDRAM DIMM memory kits.

STANDARD MEMORY REPLACED WITH OPTIONAL MEMORY

Up to 32,768 MB of memory is available with the removal of the standard 1024 MB of memory and the optional installation of PC1600-MHz Registered ECC SDRAM DIMM memory kits

Note: This chart does not represent all possible memory configurations.

Note: Second memory board would be required to configure up to 32GB or maximum memory using 2GB DIMMs.

Memory		Slot															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Standar	1024 MB	512 MB	512 MB	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty
Optiona	29,696 MB	512 MB	512 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB
Maximu	32,768 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB

Following are memory options available from HP:

- 4096-MB PC1600-MHz Registered ECC SDRAM Memory Option Kit (2 x 2048 MB) 187421-B21
- 2048-MB PC1600-MHz Registered ECC SDRAM Memory Option Kit (2 x 1024 MB) 187420-B21
- 1024-MB PC1600-MHz Registered ECC SDRAM Memory Option Kit (2 x 512 MB) 187419-B21
- 512-MB PC1600-MHz Registered ECC SDRAM Memory Option Kit (2 x 256 MB) 187418-B21

Memory

HP ProLiant ML570 G2 1.90 GHz , 1.50 GHz, 2.0 GHz or 1.40 GHz 1P Models

STANDARD MEMORY

512-MB PC1600-MHz Registered ECC SDRAM DIMM installed (2 x 256-MB SDRAM DIMM)

STANDARD MEMORY PLUS OPTIONAL MEMORY

Up to 29,184-MB of memory is available with the optional installation of PC1600-MHz Registered ECC SDRAM DIMM memory kits.

STANDARD MEMORY REPLACED WITH OPTIONAL MEMORY

Up to 32,768 MB of memory is available with the removal of the standard 512 MB of memory and the optional installation of PC1600-MHz Registered ECC SDRAM DIMM memory kits

Note: This chart does not represent all possible memory configurations.

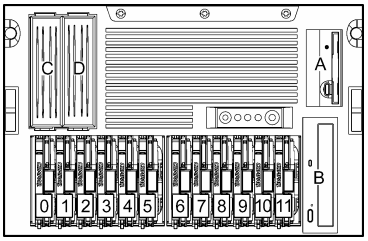
Note: Second memory board would be required to configure up to 32GB or maximum memory using 2GB DIMMs.

Memory		Slot															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Standar	512 MB	256 MB	256 MB	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty
Optiona	29,184 MB	256 MB	256 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB
Maximu	32,768 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB	2048 MB

Following are memory options available from HP:

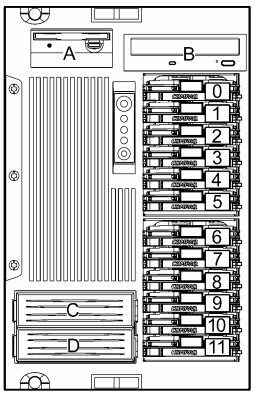
- 4096-MB PC1600-MHz Registered ECC SDRAM Memory Option Kit (2 x 2048 MB) 187421-B21
- 2048-MB PC1600-MHz Registered ECC SDRAM Memory Option Kit (2 x 1024 MB) 187420-B21
- 1024-MB PC1600-MHz Registered ECC SDRAM Memory Option Kit (2 x 512 MB) 187419-B21
- 512-MB PC1600-MHz Registered ECC SDRAM Memory Option Kit (2 x 256 MB) 187418-B21

Storage



1-inch Drive Locations

0 - 11	Two 6 x 1-inch Wide Ultra3-ready SCSI Hot Pluggable Hard Drive Bays standard
A	1.44-MB Diskette Drive
B	48x IDE CD-ROM
C, D	Two available half height bays for tape backup storage



1-inch Drive Locations

0 - 11	Two 6 x 1-inch Wide Ultra3-ready SCSI Hot Pluggable Hard Drive Bays standard
A	1.44-MB Diskette Drive
B	48x IDE CD-ROM
C, D	Two available half height bays for tape backup storage

DRIVE SUPPORT

	Quantity Supported	Position Supported	Controller
Removable Media			
1.44-MB Diskette Drive	Up to 1	A	Integrated
IDE CD-ROM Drive	Up to 1	B	Integrated IDE
ML5xx Internal Two Bay Hot Plug Wide Ultra3 SCSI Drive Cage (with Fan)	Up to 1	C, D	Integrated SCSI
Hard Drives			
Wide Ultra3 Hot Pluggable Drives			
1-inch 72.8-GB 10,000 rpm 36.4-GB 10,000 rpm 18.2-GB 10,000 rpm 36.4-GB 15,000 rpm 18.2-GB 15,000 rpm	Up to 12 Up to 14 (With Optional ML5xx Internal Two Bay Hot Plug Wide Ultra3 SCSI Drive Cage (with Fan)	0-11	Integrated Dual Channel Wide Ultra3 SCSI Adapter Smart Array 532 Controller Smart Array 5302/128 Controller Smart Array 5304/256 Controller Smart Array 5312 Controller 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter

Storage

DRIVE SUPPORT *(continued)*

	Quantity Supported	Position Supported	Controller
External Storage			
StorageWorks Enclosure 4300 (supports Ultra3 drives only)	Up to 20	External	Smart Array 532 Controller Smart Array 5302/128 Controller Smart Array 5304/256 Controller Smart Array 5312 Controller 64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
3U Rackmount Kit 5U Rackmount Kit	Up to 3	External	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
3U RM Storage Expander	Up to 3	External	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
StorageWorks Raid Array 4100 Kit	Up to 10 (with optional StorageWorks Hubs or Switches)	External	64-Bit/66MHz Fibre Channel Host Adapter
MSA 1000	Please see the MSA 1000 QuickSpecs below to determine configuration requirements	External	Please see the MSA 1000 QuickSpecs (URL below) for the latest list of supported HBAs

MSA 1000: http://www5.compaq.com/products/quickspecs/11033_div/11033_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/11033_na/11033_na.HTML (North America)

Maximum Storage Capacity – (Ultra3 Drive Cage, ML5xx Internal Two Bay Hot Plug Wide Ultra3 SCSI Drive Cage (with Fan) & StorageWorks Enclosure)	
Internal	1.019 GB ((12 x 72.8-GB) + (2 x 72.8-GB) Wide Ultra3 SCSI 1″ Drives)
External	20.384 TB hot plug SCSI storage (20 x (14 x 72.8-GB 1″ Wide Ultra3 SCSI Drives))
Total	21.403 TB

Maximum Storage Capacity – (External RAID Array 4100 Attached)	
Internal	1.019 GB ((12 x 72.8-GB) + (2 x 72.8-GB) Wide Ultra3 SCSI 1″ Drives)
External	8.736 TB (10 x (12 x 72.8-GB 1″ Wide Ultra3 SCSI 1″ Drives)
Total	9.755 TB

Tape Drives

Note: For an up-to-date listing of the latest O/S Support details for each of the Tape Drives listed below, please see the following:
http://www5.compaq.com/products/quickspecs/North_America/10233.html (North America)
http://www5.compaq.com/products/quickspecs/Division/10233.html (Division/World Wide)

Note: For an up-to-date listing of the latest O/S Support details for each of the Tape Storage Systems listed below, please see the following:
http://www5.compaq.com/products/quickspecs/North_America/10809.html (North America)
http://www5.compaq.com/products/quickspecs/Division/10809.html (Division/World Wide)

Internal AIT 100-GB, Hot Plug Internal AIT 50-GB, Hot Plug Internal AIT 35-GB, LVD Hot Plug Internal 20/40-GB DAT Drive, Hot Plug	Up to 5	2-11	Smart Array 532 Controller Smart Array 5302/128 Controller Smart Array 5304/256 Controller Smart Array 5312 Controller *Note: The Smart Array 532 does not support the AIT 100-GB Hot Plug Tape Drive.
Internal 20/40-GB DAT DDS-4 Internal 12/24-GB DAT	Up to 2	C, D	Integrated Dual Channel Wide Ultra3 Adapter Wide-Ultra SCSI-3 Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter

DRIVE SUPPORT *(continued)*

	Quantity Supported	Position Supported	Controller
Tape Drives *(continued)*			
SDLT 110/220-GB, Internal SDLT 160/320-GB, Internal	Up to 1	C + D	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
AIT 35GB, Autoloader	up tp 4	External	Integrated Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
Internal 40/80-GB DLT Enhanced Internal 20/40-GB DLT Enhanced	1	C + D (two bays)	Integrated Dual Channel Wide Ultra3 Adapter Dual Channel Wide-Ultra SCSI-3 Adapter Wide-Ultra SCSI-3 Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
Internal 40/80-GB DLT VS	Up to 2	C, D	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
Internal AIT 100-GB Tape Drive Internal AIT 50-GB Tape Drive Internal AIT 35-GB, LVD Tape Drive	Up to 2	C, D	Integrated Dual Channel Wide Ultra3 Adapter Dual Channel Wide-Ultra SCSI-3 Adapter Integrated Smart Array Controller Module (optional) 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
External AIT 100-GB Tape Drive External AIT 50-GB Tape Drive External AIT 35-GB, LVD Tape Drive	Up to 2	External	Integrated Dual Channel Wide Ultra2 Adapter Dual Channel Wide-Ultra SCSI-3 Adapter Wide-Ultra SCSI-3 Adapter Integrated Smart Array Controller Module (optional) 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
SDLT 160/320-GB, External SDLT 110/220-GB, External	Up to 3	External	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
External DLT VS 40/80 External 40/80-GB DLT Enhanced External 20/40-GB DLT	Up to 3	External	Integrated Dual Channel Wide Ultra3 Adapter Dual Channel Wide-Ultra SCSI-3 Adapter Wide-Ultra SCSI-3 Adapter
SDLT 110/220-GB, External SDLT 160/320-GB, External	Up to 2	External	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
SSL2020 AIT Library	2 drives per SCSI channel	External	64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter SAN Access Module for Smart Array 5302 Controller
MSL5026DLX (40/80GB DLT-based) MSL5026SL (SDLT-based) Library MSL5052SL (SDLT-based) Library MSL5030L (LTO-based) Library MSL5060S (LTO-based) Library	2 drives per SCSI channel	External	64-Bit Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter
DLT1 1280 SuperLoader	Up to 2	External	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
ESL9198SL ESL9326SL ESL9595SL	Please see the ESL Library QuickSpecs below to determine configuration requirements	External	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter

ESL9198SL: http://www5.compaq.com/products/quickspecs/10867_div/10867_div.HTML
ESL9326SL: http://www5.compaq.com/products/quickspecs/10868_div/10868_div.HTML
ESL9595SL: http://www5.compaq.com/products/quickspecs/11332_div/11332_div.HTML

Power Specifications

POWER SPECIFICATIONS

Part Number	144579-001
Spare Kit	157793-001
Operational Input Voltage Range (V rms)	90 to 264
Frequency Range (Nominal) (Hz)	47 to 63 (50/60)

Nominal Input Voltage (Vrms)	**100**	**115**	**208**	**220**	**230**	**240**
Max Rated Output Wattage Rating	450	450	450	450	450	450
Nominal Input Current (A rms)	7.1	6.0	3.3	3.1	2.9	2.7
Max Rated Input Wattage Rating (Watts)	692	682	672	662	652	643
Max. Rated VA (Volt-Amp)	706	696	685	675	665	656
Efficiency (%)	65	66	67	68	69	70
Power Factor	0.98	0.98	0.98	0.98	0.98	0.98
Leakage Current (mA)	0.31	0.36	0.65	0.69	0.72	0.75
Maximum Inrush Current (A peak)	42	48	87	92	96	100
Maximum Inrush Current duration (mS)	20	20	20	20	20	20

SYSTEM SPECIFICATIONS

ML570 G2 Fully Configured

Up to 4 Processors, 16 2GB Memory Cards, 12 72GB Hard Drives, 7 PCI Slots, and 3 Hot Plug Power Supplies

Nominal Input Voltage (Vrms)	**100**	**115**	**208**	**220**	**230**	**240**
Fully Loaded System Input Wattage (W)	1073	1056	1041	1025	1011	996
Fully Loaded System Input Current (A rms)	11.3	9.7	5.1	4.8	4.5	4.2
Fully Loaded System Thermal (BTU-Hr)	3658	3602	3549	3497	3446	3397
Fully Loaded System VA (Volt-Amp)	1129	1112	1062	1046	1031	1016
System Leakage with all power supplies loaded (mA)	.94	1.08	1.95	2.06	2.16	2.25
System Inrush Current with all power supplies loaded (A)	44	50	91	96	101	105
Power cord requirements	Nema 5-15P to IEC320-C13			Option no. 227099-001 Spare no 187335-001		
	IEC320-C13 to IEC320-C14 Note: For interconnect to high Voltage PDU or UPS			Option no.142257-003 Spare no 142258-003		

Notes:

* - To review typical system power ratings use the Active Answers Power Calculator which is available via the online tool located at URL:
http://activeanswers.compaq.com/aaconfiguratorcode

To drill down to calculators:

- Click on: “ProLiant Servers”
- Click on the Server of interest. Example: ML570 G2
- Click on: “Power Calculator” link. (You may need to scroll down to see it)

Power Specifications

Power Cords (13 Cord Sets)	**Power Cord Part Number**
Country	
APD	139867-006
APD	100613-003
APD	100614-003
Australia	100611-007
Europe	100614-003
France	100614-003
Germany	100614-003
Japan	139867-006
PRC	139867-006
PRC	100613-003
PRC	100661-007
UK	100613-003
US	227099-001

Technical Specifications

System Unit Tower	**Dimensions** (HxWxD)	20 x 12.8 x 27.8 in/50.8 x 32.5 x 70.6 cm	
	Weight **No hard drives installed, one power supply**	100 lb/45.36 kg	
	Input Requirements (per power supply)	Rated Input Voltage	100 to 127 VAC/200 to 240 VAC
		Rated Input Frequency	47 to 63 Hz
		Input Power	690W @ 110 VAC
		Rated Input Current	7.6A
	BTU Rating	2400 BTU/hr	
	SCSI Connectors	Two internal HD68 connectors (supporting Wide Ultra3)	
		One external VHDCI connector (supporting Wide Ultra3)	
		One SCSI knockout	
	Power Supply Output Power (per power supply)	Rated Steady-State Power	600W
		Maximum Peak Power	
	Acoustic Noise	Idle (Fixed Disk Drives Spinning)	
		L_{WAd} (BELS)	6.7
		Operating (Random Seeks to Fixed Disks)	
		L_{WAd} (BELS)	6.8
System Unit Rack	**Dimensions** (HxWxD)	12.8 x 17.5 x 25.6 in/32.5 x 44.4 x 65.0 cm	
	Weight **No hard drives installed, one power supply**	100 lb/45.36 kg	
	Input Requirements (per power supply)	Rated Input Voltage	100 to 127 VAC/200 to 240 VAC
		Rated Input Frequency	47 to 63 Hz
		Input Power	690W @ 110 VAC/670W @ 220 VAC
		Rated Input Current	7.6A
	BTU Rating	2400 BTU/hr	
	SCSI Connectors	Two internal HD68 connectors (supporting Wide Ultra3)	
		One external VHDCI connector (supporting Wide Ultra3)	
		One SCSI knockout	
	Power Supply Output Power (per power supply)	Rated Steady-State Power	600W
		Maximum Peak Power	
	Acoustic Noise	Idle (Fixed Disk Drives Spinning)	
		L_{WAd} (BELS)	6.7
		Operating (Random Seeks to Fixed Disks)	
		L_{Wad} (BELS)	6.8

1.44-MB Diskette Drive	**Diskette Size**	3.5 in/8.89 cm	
	LED Indicators (front panel)	Green	
	Read/Write Capacity per Diskette (high/low density)	1.44 MB/720 KB	
	Drive Supported	One	
	Drive Height	One-third	
	Drive Rotation	300 rpm	
	Transfer Rate Synchronous Maximum (high/low)	500/250 Kb/s	
	Bytes/Sector	512	
	Sectors/Track (high/low)	18/9	
	Tracks/Side (high/low)	80/80	
	Access Times	Track-to-Track (high/low)	3/6 ms
		Average (high/low)	169/94 ms
		Settling Time	15 ms
		Latency Average	100 ms
	Cylinders (high/low)	80/80	
	Read/Write Heads	Two	

Hot Plug Wide Ultra3 SCSI Hard Drives	**72.8 GB10K**	**Capacity**	72837.2 MB	
	232432-B22	**Height**	1.0 in/2.54 cm	
		Width	4.0 in/10.16 cm	
		Interface	Wide Ultra3 SCSI	
		Transfer Rate Synchronous (Maximum)	160 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.3 ms
			Average	4.5 ms
			Full-Stroke	11 ms
			Rotational Speed	10,000 rpm
		Physical Configuration	Bytes/Sector	512
			Logical Blocks	142,264,000
		Operating Temperature	50° to 95° F/10° to 35° C	
	36.4 GB 10K	**Capacity**	36419.2 MB	
	176496-B22	**Height**	1 in/2.54 cm	
		Width	4.0 in/10.16 cm	
		Interface	Wide Ultra3 SCSI	
		Transfer Rate Synchronous (Maximum)	160 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.9 ms
			Average	5.7 ms
			Full-Stroke	13 ms
			Rotational Speed	10,000 rpm
		Physical Configuration	Bytes/Sector	512
			Logical Blocks	71,132,000
		Operating Temperature	50° to 95° F/10° to 35° C	
	18.2 GB 10K	**Capacity**	18209.3 MB	
	1142673-B22	**Height**	1 in/2.54 cm	
		Width	4.0 in/10.16 cm	
		Interface	Wide Ultra3 SCSI	
		Transfer Rate Synchronous (Maximum)	160 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.9 ms
			Average	5.5 ms
			Full-Stroke	12 ms
			Rotational Speed	10,000 rpm
		Physical Configuration	Bytes/Sector	512
			Logical Blocks	35,565,080
		Operating Temperature	50° to 95° F/10° to 35° C	

Hot Plug Wide Ultra3 SCSI Hard Drives *(continued)*	**36.4 GB 15K**	**Capacity**	36419.2 MB	
	232916-B22	**Height**	1 in/2.54 cm	
		Width	4.0 in/10.16 cm	
		Interface	Wide Ultra3 SCSI	
		Transfer Rate Synchronous (Maximum)	160 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.4 ms
			Average	3.8 ms
			Full-Stroke	7 ms
			Rotational Speed	15,000 rpm
		Physical Configuration	Bytes/Sector	512
			Logical Blocks	71,132,000
		Operating Temperature	50° to 95° F/10° to 35° C	
	18.2 GB 15K	**Capacity**	18209.3 MB	
	188122-B22	**Height**	1 in/2.54 cm	
		Width	4.0 in/10.16 cm	
		Interface	Wide Ultra3 SCSI	
		Transfer Rate Synchronous (Maximum)	160 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.7 ms
			Average	3.9 ms
			Full-Stroke	12 ms
			Rotational Speed	15,000 rpm
		Physical Configuration	Bytes/Sector	512
			Logical Blocks	35,565,080
		Operating Temperature	50° to 95° F/10° to 35° C	

Technical Specifications

48X Max IDE CD-ROM Drive	**Disk**	Applicable Disk	CD-ROM, CD-XA, CD-DA (Mode 1, Mode 2, Form 1 and 2) Photo CD (Single and Multi-session) Mixed Mode (Audio and Data combined) CD-R
		Capacity	540 MB (Mode 1, 12 cm) 650 MB (Mode 2, 12 cm)
	Block Size	Mode 1	2,048 bytes
		Mode 2	2,340 bytes, 2,336 bytes
		CD-DA	2,352 bytes
		CD-XA	2,328 bytes
	Interface	IDE (ATAPI)	
	Access Times (typical)	Random	<100 ms
		Full-Stroke	<150 ms
	Data Transfer Rate	Sustained	3000 to 7200 KB/s (20X to 48X)
		Burst	150 KBps to 7,200 KBps
			16.7 MBps
	Cache Buffer	128 KB	
	Start-up Time (typical)	< 7 seconds	
	Stop Time	< 4 seconds	
	Laser Parameters	Type	Semiconductor Laser GaA1As
		Wave Length	780 ± 25 nm
	Operating Conditions	Temperature	41° to 113° F/5° to 45° C
		Humidity	10% to 80%
	Dimensions	(HxWxD, maximum)	1.7 x 5.85 x 8.11 in/4.29 x 150 x 208 cm
		Weight	2.09 lb/0.95 kg
Integrated 64-bit Dual Channel Wide-Ultra3 SCSI Adapter	**Drives Supported**	Up to 15 SCSI devices per channel	
	Data Transfer Method	64-bit PCI bus-master	
	SCSI Channel Transfer Rate	160 MB/s per channel	
	Maximum Transfer Rate per PCI Bus (peak)	267 MB/s	
	SCSI Termination	Active Termination	
	External SCSI Connectors	One 68-Pin	
	Internal SCSI Connectors	Two 68-Pin	
Compaq NC3163 Fast Ethernet NIC Embedded 10/100 WOL (Wake On LAN)	**Network Interface**	10Base-T/100Base-TX	
	Compatibility	PCI, v2.1, IEEE 802.3/802.3u compliant	
	Data Transfer Method	32-bit bus-master PCI	
	Network Transfer Rate	10Base-T (Half-Duplex)	10 Mb/s
		10Base-T (Full-Duplex)	20 Mb/s
		100Base-TX (Half-Duplex)	100 Mb/s
		100Base-TX (Full-Duplex)	200 Mb/s
	Connector	10Base-T	Categories 3, 4 or 5 UTP; up to 328 feet (100 meters)
	Cable Support	100Base-TX	Category 5 UTP; up to 328 feet (100 meters)
Video Controller	**Controller Chip**	ATI RAGE IIC PCI	
	Video DRAM	8 MB Video SDRAM	
	Data Transfer Method	32-bit PCI	
	Support Resolution	Supported Color Depths:	
		640 x 480	16.7M, 64K, 256, 16
		800 x 600	16.7M, 64K, 256, 16
		1024 x 768	16.7M, 64K, 256, 16
		1152 x 864	16.7M, 64K, 256, 16
		1280 x 1024	16.7M, 64K, 256, 16
		1600 x 1200	64K, 256, 16
	Connector	VGA	

Technical Specifications

Integrated Dual Channel Wide Ultra3 SCSI Adapter	**Drives Supported**	Up to 15 SCSI devices per channel
	Data Transfer Method	64-bit PCI bus-master
	SCSI Channel Transfer Rate	160 MB/s per channel
	Maximum Transfer Rate per PCI Bus (peak)	267 MB/s
	SCSI Termination	Active Termination
	SCSI Connectors	1 external, 2 internal (68-pin)
Smart Array 5312 Controller	**Data Compatible with all Smart Array Controllers**	Yes
	Instant Upgrades to other Smart Array Controllers	Yes
	Consistent Software Manageability Tools	Yes
	PCI Bus	64-bit, 133 MHz PCI-X
	PCI Peak Data Transfer Rate	1066 MB/s
	SCSI Protocols Supported	Ultra3, Ultra2
	SCSI Peak Data Transfer Rate	320 MB/s total, 160 MB/s per channel
	Channels	2, 4
	SCSI Ports (external/internal)	2 channel model: 2/2
	Drives Supported (maximum)	28
	Cache	128 MB battery-backed read-write (optional 256 MB upgrade available)
	RAID Support	0, 1, 1+0, 5
	Logical Drives (maximum)	32
	Online Configuration	Yes
	Online Capacity Expansion	Yes
	Logical Drive Capacity Extension	Yes
	Online Stripe Size Migration	Yes
	Online RAID Level Migration	Yes
	Online Spare Support	Yes
	Automatic Data Recovery	Yes
	Drive Roaming	Yes
	Redundant Controllers	No

Smart Array 5300 Controller	**Data Compatible with all Smart Array Controllers**	Yes
	Instant Upgrades to other Smart Array Controllers	Yes
	Consistent Software Manageability Tools	Yes
	PCI Bus	64-bit, 66 MHz (integrated on server board)
	PCI Peak Data Transfer Rate	533 MB/s
	SCSI Protocols Supported	Ultra3, Ultra2, Wide-Ultra
	SCSI Peak Data Transfer Rate	640 MB/s total, 160 MB/s per channel
	Channels	2, 4
	SCSI Ports (external/internal)	2 channel model: 2/2 4 channel model: 4/2
	Drives Supported (maximum)	56 Note: Drives Supported (maximum) is based on use of StorageWorks Enclosure 4300 family (14 hard disk drive enclosure).
	Cache	256,128, 64 or 32 MB battery-backed read-write
	RAID Support	0, 1, 1+0, 5, Advanced Data Guarding Note: For customers who have purchased the SA-5304/128, a quick firmware upgrade to enable the technology will be available from http://www.compaq.com/smartarray. Note: RAID Support: Advanced Data Guarding (RAID ADG) is available with 128-MB versions of the SA-5300 only.
	Logical Drives (maximum)	32
	Online Configuration	Yes
	Online Capacity Expansion	Yes
	Logical Drive Capacity Extension	Yes
	Online Stripe Size Migration	Yes
	Online RAID Level Migration	Yes
	Online Spare Support	Yes
	Automatic Data Recovery	Yes
	Drive Roaming	Yes
	Redundant Controllers	No
Smart Array 532 Controller	**Data Compatible with all Smart Array Controllers**	Yes
	Instant Upgrades to other Smart Array Controllers	Yes
	Consistent Software Manageability Tools	Yes
	PCI Bus	64-bit, 66 MHz
	PCI Peak Data Transfer Rate	533 MB/s
	SCSI Protocols Supported	Ultra3, Ultra2
	SCSI Peak Data Transfer Rate	160 MB/s
	Channels	2
	SCSI Ports (external/internal)	1/1
	Drives Supported (maximum)	14 Note: Drives Supported (maximum) is based on use of StorageWorks Enclosure 4300 family (14 hard disk drive enclosure).
	Cache	32-MB cache engine
	RAID Support	0, 1, 1+0, 5
	Logical Drives (maximum)	32
	Online Configuration	Yes
	Online Capacity Expansion	Yes
	Logical Drive Capacity Extension	Yes
	Online Stripe Size Migration	Yes
	Online RAID Level Migration	Yes
	Online Spare Support	Yes
	Automatic Data Recovery	Yes
	Drive Roaming	Yes
	Redundant Controllers	No

Technical Specifications

64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter	**Drives Supported**	Up to 14 SCSI devices
	Storage Capacity	254.8 GB
	Data Transfer Method	64-bit/66-MHz PCI bus-master
	Maximum SCSI Channel Transfer Rate	160 MB/s per channel
	Maximum Transfer Rate per PCI Bus (peak)	532 MB/s per channel
	SCSI Protocols	Wide Ultra3 SCSI Wide Ultra2 SCSI Wide-Ultra SCSI-3 Fast-Wide SCSI-2 Fast SCSI-2
	Electrical Protocol	Low Voltage Differential (LVD)
	SCSI Termination	Active Termination
	External SCSI Connectors	One 68-Pin Wide Ultra SCSI-3 connector
	Internal SCSI Connectors	Two 68-Pin Wide Ultra SCSI-3 connectors (one LVD and one SE) One 50-Pin Narrow Ultra connector
64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter	**Drives Supported**	Up to 28 SCSI devices (14 per channel)
	Storage Capacity	509.6 GB
	Data Transfer Method	64-bit/66-MHz PCI bus-master
	Maximum SCSI Channel Transfer Rate	160 MB/s per channel
	Maximum Transfer Rate per PCI Bus (peak)	532 MB/s per channel
	SCSI Protocols	Wide Ultra3 SCSI Wide Ultra2 SCSI Wide-Ultra SCSI-3 Fast-Wide SCSI-2 Fast SCSI-2
	Electrical Protocol	Low Voltage Differential (LVD)
	SCSI Termination	Active Termination
	External SCSI Connectors	Two 68-Pin VHDCI connectors
	Internal SCSI Connectors	Two 68-Pin Wide Ultra SCSI-3 connectors One 50-Pin Narrow Ultra connector

Technical Specifications

Compaq Rack 10842 (42U)(optional)	**Dimensions**	**Total Cabinet**	**Shipping**	**Color**
	Height	78.7 in/199.9 cm	85in/215.9 cm	
	Depth	39.691 in/100.82 cm	48 in/121.92 cm	Graphite Metallic – doors
	Width	31.5 in/ 80.01cm	43.5 in/110.49 cm	Carbon – frame
	Weight	295 lb/133.8 kg	335lb/151.95 kg	
Compaq Rack 10647 (47U)(optional)	**Dimensions**	**Total Cabinet**	**Shipping**	**Color**
	Height	89.96 in/228.5 cm	95.47 in/242.49 cm	
	Depth	39.691 in/100.82 cm	48 in/121.92 cm	Graphite Metallic – doors
	Width	24 in/60.96 cm	32 in/81.28 cm	Carbon – frame
	Weight	245 lb/111 kg	284 lb/129 kg	
Compaq Rack 10642 (42U)(optional)	**Dimensions**	**Total Cabinet**	**Shipping**	**Color**
	Height	78.7 in/199.90 cm	86.22 in/219 cm	
	Depth	39.691 in/100.82 cm	48 in/121.92 cm	Graphite Metallic – doors
	Width	24 in/60.96 cm	32 in/81.28 cm	Carbon – frame
	Weight	253 lb/114.84 kg	325 lb/147.52 kg	
Compaq Rack 10636 (36U)(optional)	**Dimensions**	**Total Cabinet**	**Shipping**	**Color**
	Height	68.6 in/174.24 cm	75.25 in/191.14 cm	
	Depth	39.691 in/100.82 cm	48 in/121.92 cm	Graphite Metallic – doors
	Width	24 in/60.96 cm	32 in/81.28 cm	Carbon – frame
	Weight	220 lb/100 kg	272 lb/123 kg	
Compaq Rack 10622 (22U)(optional)	**Dimensions**	**Total Cabinet**	**Shipping**	**Color**
	Height	43 in/109.22 cm	52.25 in/132.72 cm	
	Depth	39.691 in/100.82 cm	48 in/121.92 cm	Graphite Metallic – doors
	Width	24 in/60.96 cm	32 in/81.28 cm	Carbon – frame
	Weight	176 lb/79.89 kg	225 lb/102.13 kg	
Compaq Rack 9842 (42U)(optional)	**Dimensions**	**Total Cabinet**	**Shipping**	**Color**
	Height	78.7 in/199.9 cm	86.22 in/219 cm	
	Depth	35.8 in/90.932 cm	48 in/121.92 cm	Opal
	Width	31.5 in/80.01 cm	38.8 in/98.55 cm	
	Weight	374 lb/170 kg	440 lb/200 kg	
Compaq Rack 9142 (42U)(optional)	**Dimensions**	**Total Cabinet**	**Shipping**	**Color**
	Height	78.7 in/199.9 cm	83.38 in/211.79 cm	
	Depth	35.8 in/90.932 cm	48 in/121.92 cm	Opal
	Width	23.7 in/60.2 cm	32 in/81.28 cm	
	Weight	253 lb/114.84 kg	325 lb/147.52 kg	

Technical Specifications

Compaq Rack 9136 (36U)(optional)	**Dimensions**	**Total Cabinet**	**Shipping**	**Color**
	Height	68.6 in/174.24 cm	75.25 in/191.14 cm	
	Depth	35.8 in/90.932 cm	48 in/12.192 cm	Opal
	Width	23.7 in/60.2 cm	32 in/81.28 cm	
	Weight	165 lb/75 kg	234 lb/106 kg	

Compaq Rack 9122 (22U)(optional)	**Dimensions**	**Total Cabinet**	**Shipping**	**Color**
	Height	43 in/109.22 cm	52.25 in/132.72 cm	
	Depth	35.8 in/90.932 cm	48 in/121.92 cm	Opal
	Width	24 in/60.96 cm	32 in/81.28 cm	
	Weight	176 lb/79.89 kg	225 lb/102.13 kg	

Note: For more information on rack and rack options, please visit the following url: http://www.compaq.com/rackoptions.

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